

CURRICULUM VITAE

Name : Endra JOELIANTO, PhD., Ir.
Place/date of birth : Solo / 08 July 1966
Institution Address : Engineering Physics Study Program
Instrumentation and Control Research Group
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Education:

- PhD in Engineering, The Australian National University (ANU), Australia, 2002
Thesis Title: Linear Hybrid Reference Control Systems (2000)
- Sarjana Teknik in Engineering Physics, Institut Teknologi Bandung (ITB), Indonesia, 1990
Thesis Title: Explicit Linear Quadratic Adaptive Control and Its Implementation on DC-Motor Speed Control (1990)

Experience:

- **Staff**, Pusat Unggulan Iptek Teknologi Transportasi Berkelanjutan (National Research Center for Sustainable Transportation Technology), ITB, 2016-present.
- **Staff**, Pusat Unggulan Iptek Teknologi Hankam (National Research Center for Defense and Security Technology), ITB, 2016-present.
- **Chairman**, IEEE Indonesia Control Systems Society/Robotics and Automation Society (CSS/RAS) Joint Chapter, 2010-2015.
- **Chairman**, Society of Automation, Control & Instrumentation (SACI), Masyarakat Otomasi, Kontrol dan Instrumentasi (MOKI), Indonesia, 2009-present.
- **Staff**, Instrumentation and Control Research Group, Faculty of Industrial Technology, Bandung Institute of Technology, Bandung, Indonesia (present)
- **Head** of Intelligent Control and Automation Laboratory, Engineering Physics, Institut Teknologi Bandung (ITB), 2006-present
- **Coordinator** of PLC (Programmable Logic Controller) Research Group for Research and Training, Engineering Physics, Institut Teknologi Bandung (ITB), 2004-present
- **Visiting Research Fellow**, Smart Robot Center, Department Aerospace and Information Engineering, Konkuk University, Seoul-Korea, October 2010
- **Committees** of IACSIT Computer Theory and Engineering Society (CTES), www.iacsit.org/society/ctes.htm, 2009-present.

- **Research Professor**, Centre for UnManned System Studies (CentrUMS), Institut Teknologi Bandung, 2007-present
- **Coordinator** of Engineering Physics Laboratory, Department of Engineering Physics, Institut Teknologi Bandung, 2004-2005
- **Visiting Lecturer**, Department of Chemical Engineering, Parahyangan Catholic University, Bandung-Indonesia, 2000-present
- **Visiting Lecturer**, Department of Electrical Engineering, Maranatha Christian University, Bandung-Indonesia, 2001-present
- **Visiting Research Fellow**, Telecommunication and Information Technology Institute (TITR), University of Wollongong, NSW-Australia, February 2002
- **Lecturer**, Department of Engineering Physics, Institut Teknologi Bandung (ITB), Bandung-Indonesia, 1999-present
- **Research Associate**, Department of Engineering, The Australian National University (ANU), Canberra-Australia, 1995-1999
- **Research Assistant**, Instrumentation and Control Laboratory, Department of Engineering Physics, Institut Teknologi Bandung (ITB), Bandung-Indonesia, 1990-1995

CERTIFICATION:

1. **Certificate of Competence for Workplace Assessment- “Assessor of Competency,”** Transportation and Logistic, No. Reg. MET.000.002446 2017, BNSP, 2017.
2. **Professional Lecturer in Instrumentation and Control, Ministry of Education and Culture, Republic of Indonesia, Registration No. 11100200103475, 2011.**

AWARDS:

1. **Best paper award** in the 3rd International Conference on Robotics, Biomimetics & Intelligent Computational Systems 2018 (ROBIONETICS 2018), Bandung; Joshua J. Damanik, Dewi R. Andriani, Augie Widyotriatmo, Endra Joelianto, “Flocking of Robots with Predictive Localization”, Bandung 2018.
2. **Best Paper Award** KINEMATICS 2016, The 3rd International Conference on Kinematics, Mechanics of Rigid Bodies, and Materials 2016, H.Y. Sutarto, E. Joelianto, and T.A. Nugroho, “Developing a Stochastic Model of Queue Length at a Signalized Intersection”, 17-18 December 2016, Bali-Indonesia.
3. **Notable Service and Contributions** towards the advancement of IEEE and the Engineering Professions as Chair of CS23/RA24 Society Chapter Indonesia Section 2011-2014, President of IEEE, 2016. New York, USA.
4. **IEEE Certificate of Appreciation** as Chair of Control System Society / Robotics & Automation Society Joint Chapter Indonesia, President of IEEE, 2013, New York, USA.
5. Penghargaan Pengabdian 25 Tahun ITB, 2017.
6. Karya Satya XX, President of Republic Indonesia (Joko Widodo), 2016.
7. **Best Poster Nominee**, The 6th International Conference on Intelligent Unmanned Systems (ICIUS) 2010, November 3-5, 2010, Bali-Indonesia.
8. 2007, **Winning awards of Challengers** Problem of AUN-SEED Field Wise Seminar (FWS) Benchmark Problem on Robust Stabilization of a Double Inverted Pendulum AUN-SEED, 2007

9. Karya Satya X, President of Republic Indonesia (Susilo Bambang Yudhoyono), 2006.

CERTIFICATES:

1. Yokogawa Field Wireless ISA 100.11a Solution, Bandung, 12-13 May 2012.
2. Yokogawa Safety Instrumented Systems (SIS) Prosafe Training, Bandung, 14-15 April 2012.
3. Yokogawa DCS Centum VP Engineering Training, Bandung, 25-26 February 2012.
4. Green Building Automation Workshop and Exhibition, CITA-ITB, East Campus Center, Bandung, 27 Februari 2012.
5. Wonderware Invensys Historian and Information Server, PT. Trimaxindo Adimitra, Bandung, 25-29 October 2011.
6. Wonderware Invensys Intouch, PT. Trimaxindo Adimitra, Bandung, 18-22 October 2011.
7. *Effective Energy Systems for Sustainable Development*, Asian Institute of Technology (AIT), Pathumtani-Thailand, 21-30 August 2006.
8. *Cleaner Production Application in Industries*, Department of Chemical Engineering – ITB and Pollution Research Group, University of Kwazulu-Natal, South Africa, Bandung, April 2005.
9. *Basic and Advanced PLC*, PT. OMRON Electronics Indonesia, Jakarta, 2004.
10. *Automation & Instrumentation of Chemical Industry and An Example of Energy Conservation: Use of Rice Husk Waste to Produce Power*, (Dr. Harry W. West, University of Texas A&M), Department of Engineering Physics, Institut Teknologi Bandung, March 12-13, 2002
11. *LNG/LPG Industry Conception Design and Chemical Process Safety*, (Dr. Harry W. West, University of Texas A&M), Department of Engineering Physics, Institut Teknologi Bandung, March 5-6, 2002
12. *Basic Calibration and Implementation of SNI 19-17025*, PT. YOKOGAWA Indonesia, Bandung, 2001.
13. *Instrumentation and Control Re-engineering*, PT. ARUN LNG, Blang Lancang, Lhokseumawe, ACEH. 1988.

TRAINING AND PROJECT:

Handout for Industrial Training on Instrumentation, Control, PLC/DCS:

1. *PLC/DCS for Industrial Automation*, Department of Engineering Physics, Institut Teknologi Bandung (ITB), 2001
2. *Instrumentation and Process Control*, Department of Engineering Physics, Institut Teknologi Bandung (ITB), 2001
3. *Tuning PID Controller*, Department of Engineering Physics, Institut Teknologi Bandung (ITB), 2002
4. *Basic PLC*, PLC Research Group, Department of Engineering Physics, Institut Teknologi Bandung (ITB), 2004
5. *Advanced PLC*, PLC Research Group, Department of Engineering Physics, Institut Teknologi Bandung (ITB), 2004

6. *PLC Communication and Networking*, PLC Research Group, Department of Engineering Physics, Institut Teknologi Bandung (ITB), 2004
7. *SCADA Systems*, PLC Research Group, Department of Engineering Physics, Institut Teknologi Bandung (ITB), 2005
8. *PLC Integration to LAN*, PLC Research Group, Department of Engineering Physics, Institut Teknologi Bandung (ITB), 2005
9. *Ethernet based PLC Network*, PLC Research Group, Department of Engineering Physics, Institut Teknologi Bandung (ITB), 2005
10. *Industrial Electronics and Control*, PLC Research Group, Department of Engineering Physics, Institut Teknologi Bandung (ITB), 2006
11. *PLC: Installation, Troubleshooting and Maintenance*, PLC Research Group, Engineering Physics, Institut Teknologi Bandung, 2007.
12. *Human Machine Interface: Wonderware InTouch*, PLC Research Group, Engineering Physics, Institut Teknologi Bandung, 2007.
13. *Ultrasonic Flow Measurement and Calibration System*, Intelligent Control and Automation Laboratory, Engineering Physics, Institut Teknologi Bandung, 2007.
14. *Choke and Control Valves*, Intelligent Control and Automation Laboratory, Engineering Physics, Institut Teknologi Bandung, 2008.
15. *Distributed Control Systems (DCS): Theory and Practice*, Intelligent Control and Automation Laboratory, Engineering Physics, Institut Teknologi Bandung, 2008
16. *Fieldbus Control Systems*, Intelligent Control and Automation Laboratory, Engineering Physics, Institut Teknologi Bandung, 2008
17. *Advance Flow Measurement*, Intelligent Control and Automation Laboratory, ITB-2009.
18. *Fiscal and Custody Transfer*, Intelligent Control and Automation Laboratory, ITB-2009.
19. *Safety Instrumented Systems (SIS): IEC61508 and IEC61511*, PLC Research and Training, Engineering Physics, Institut Teknologi Bandung, 2010
20. *API 500 and API RP 14C*, Intelligent Control and Automation Laboratory, ITB-2010.
21. *Piping and Instrument Diagram (P&ID)*, Intelligent Control and Automation Laboratory, ITB-2010.
22. *Flow Assurance in Pipeline Systems*, Intelligent Control and Automation Laboratory, ITB-2011.
23. *Wellhead Control Systems and Panel*, Intelligent Control and Automation Laboratory, ITB-2010.
24. *Flow Assurance in Pipe Line*, Intelligent Control and Automation Laboratory, ITB-2011.
25. *Applying Instrumentation in Hazardous Area based on ISA Standard*, Intelligent Control and Automation Laboratory, ITB-2012.
26. *Root Cause Failure Analysis (RCFA)*, Intelligent Control and Automation Laboratory, ITB-2012.

Professional Skills Instructor:

- Instructor in Training for Industrial Instrumentation, Control and Automation using PLC/DCS:
- 1. Computer Based Instrumentation and Data Acquisition, PT. LNG Badak Co., Bontang 1990

2. Instructor in a number of Intensive Course on Computer Based Instrumentation and Control Systems conducted by Instrumentation and Control Laboratory, Department of Engineering Physics, ITB, 1991-1994
3. Electronics, PT. Iskandar Muda Fertilizer, North Aceh 1993
4. Basic Process Control, PT. Padang Portland Cement Training Center, Indarung, Padang, 2000
5. Control for Non Control Engineers, Indonesia Cement and Concrete Institute, Ciangrana-Bogor 2001
6. Understanding DCS, Training Series on DCS-ITB, Bandung 2001.
7. Process Control Technique, PT. Pertamina (Oil and Gas) UP II - Dumai and UP VI – Balongan (6 Batches), Bandung 2001.
8. Instrumentation and Control Systems for Industrial Application, PT. Fiqry Jaya Mandiri, Jayakarta Hotel, Bandung 2002.
9. Basic Industrial Process Control using DCS, PT. Semen Gresik (PERSERO) Tbk., Bandung 2002.
10. Tuning and Control Loop Performance, PT. Semen Gresik (PERSERO) Tbk., Bandung 2002.
11. Programmable Logic Controller (PLC), Control Lab., Dept. of Electrical Engineering, Maranatha Christian University, Bandung 2002 (2 Batches)
12. Advanced Programmable Logic Controller (PLC), PT. ARUN, NGL, Bandung 2002.
13. Understanding DCS, PT. PUPUK KALIMANTAN TIMUR, Bandung 2002.
14. Instrumentation and Control Systems for Industrial Application, PT. Fiqry Jaya Mandiri, Malya Hotel, Bandung 2003.
15. Plant Automation by PLC & DCS, PT. Surya Dwika Mandiri, Sheraton Hotel, Bandung, 10-14 May, 2004.
16. Plant Automation by PLC & DCS, PT. Surya Dwika Mandiri, Jayakarta Hotel, 14-18 June. 2004.
17. Instrumentation and Control Systems for Industrial Application, PT. Fiqry Jaya Manunggal, Jayakarta Hotel, Bandung 2004.
18. Industrial Automation using PLC, Retooling TPSDP Project Batch I, LAPI ITB, Bandung 2004 (150 participants)
19. Industrial Control and Automation (Basic and Advanced PLC, PLC Communications, Process Control using PLC, PLC Human Machine Interface), Retooling TPSDP Project Batch II, PT. Cahaya Sumirat, Bandung, August-October 2005. (100 participants)
20. Industrial Control and Automation (Basic and Advanced PLC, PLC Communications, Process Control using PLC, PLC Human Machine Interface), Retooling TPSDP Project Batch II, Maranatha Christian University, Bandung, September-November 2005. (150 participants)
21. Advanced Flow Measurement and Troubleshooting, PT. Surya Dwika Mandiri, Jayakarta Hotel, 2005
22. Calibration, Measurement and SNI 19-17025 (PT. Petrogres, Gresik), Calibration Laboratory, Department of Engineering Physics-ITB, 2005
23. Calibration, Measurement and SNI 19-17025 (Immanuel Hospital, Bandung), Calibration Laboratory, Department of Engineering Physics-ITB, 2005
24. PID Controller and Tuning (Polytechnic Manufactur (POLMAN) Bandung), Department of Engineering Physics-ITB, June 2005
25. Distributed Control Systems (DCS) (Polytechnic Manufactur (POLMAN) Bandung), Department of Engineering Physics-ITB, July 2005

26. SCADA Systems and Wonderware (Polytechnic Manufactur (POLMAN) Bandung), Department of Engineering Physics-ITB, August 2005
27. PLC Integration to LAN (Polytechnic Manufactur (POLMAN) Bandung), Department of Engineering Physics-ITB, June 2005
28. PLC Integration to LAN (Chevron, British Petroleum, Conoco-Phillips, Nusa Halmahera Mineral), PT. Fiqry Jaya Manunggal, Sheraton Hotel, February 2006.
29. Plant Automation by PLC, DCS and MMI, PT. Surya Dwika Mandiri, Jayakarta Hotel, 20-24 May, 2006.
30. PLC Operation and Programming, PT. Pupuk Kalimantan Timur Tbk., PLC Research Group @ Engineering Physics, ITB, June 2006.
31. Plant Automation using PLC, DCS and MMI (Chevron, UNOCAL, Petrochina), PT. Surya Dwika Mandiri, Jayakarta Hotel, November 2006.
32. PLC Operation and Programming, PT. Surya Dwika Mandiri, Jayakarta Hotel, 7-10 May, 2007.
33. Advanced Flow Measurement (Chevron, ConocoPhillips), PT. Surya Dwika Mandiri, Jayakarta Hotel, June 2007.
34. Advanced Flow Measurement Technique and Troubleshooting, PT. Surya Dwika Mandiri, Jayakarta Hotel, 2-6 July, 2007.
35. Instrumentation Engineering, McDermott in house training, PT. Fiqry Jaya Manunggal, Batam, July 2007.
36. PLC Integration to LAN and WAN, (Chevron Pacific Indonesia, VICO), PT. Fiqry Jaya Manunggal, Jayakarta Hotel, August 2007.
37. PLC Installation, Troubleshooting and Maintenance, (Chevron Geothermal Gunung Salak, Polyfin Canggih), PT. Surya Dwika Mandiri, 27-31 August 2007.
38. Advanced Flow Measurement (Chevron Geothermal, Chevron Pacific Indonesia, ConocoPhillips), PT. Surya Dwika Mandiri, Jayakarta Hotel, September 2007.
39. Human Machine Interface: Wonderware InTouch, PT. Krakatau Steel, PLC Research Group, ITB, Cilegon, 2007.
40. Advanced Flow Measurement Technique and Troubleshooting, PT. Surya Dwika Mandiri, Jayakarta Hotel, 9-12 September, 2007.
41. Ultrasonic Flow Measurement and Calibration Systems, PT. Surya Dwika Mandiri, Jayakarta Hotel, 11-14 December, 2007.
42. Advanced Flow Measurement Technique and Troubleshooting, PT. Surya Dwika Mandiri, Jayakarta Hotel, 31 March-4 April, 2008.
43. PLC Operation and Programming, PT. Surya Dwika Mandiri, Jayakarta Hotel, 21-25 April, 2008.
44. Plant Automation By PLC, DCS and MMI, PT. Surya Dwika Mandiri, Jayakarta Hotel, 26-29 May, 2008.
45. Advanced Process Control using PLC, (for PT. Indonesia Power, Mrica, Banjarnegara), Center for Instrumentation Technology and Automation, Institut Teknologi Bandung, May 2008.
46. PLC Installation Maintenance & Troubleshooting, (Chevron Geothermal Gunung Salak), PT. Surya Dwika Mandiri, Jayakarta Hotel, 16-20 June, 2008.
47. Advanced Flow Measurement Technique and Troubleshooting, (Chevron Geothermal Gunung Salak, Chevron Pacific Indonesia, ConocoPhillips, BP), PT. Surya Dwika Mandiri, Jayakarta Hotel, 23-27 June, 2008.
48. Operation of Distributed Control Systems Course, (in house training PT. Chevron Pacific Indonesia, Duri, Riau), PT. Fiqry Jaya Manunggal (FJM), 4 Batches, February-October, 2008.
49. Instrumentation Course, (in house training Total E&P, Balikpapan, Kaltim), PT. Fiqry Jaya Manunggal (FJM), 6 Batches, October-November, 2008.

50. Choke and Control Valves, (Total E&P, Star Energy Kandak, BP), PT. Fiqry Jaya Manunggal, Grand Preanger Hotel, Bandung, 24-27 November, 2008.
51. Choke and Control Valves, (Total E&P), PT. Fiqry Jaya Manunggal (FJM), Jayakarta Hotel, Bandung, 8-11 December, 2008.
52. Advanced Process Control using PLC, (for PT. PERTAMINA), Center for Instrumentation Technology and Automation, Institut Teknologi Bandung, 27-30 January 2009.
53. Calibration Principle and Measurement, PT. Saguling, Calibration Laboratory, Bandung, 23-26 February 2009.
54. Industrial Instrumentation and Control, Pembangkit Jawa Bali (PJB) – PLN, Bandung, 30 March – 3 April 2009.
55. Control Valve Operation and Maintenance, Chevron Pacific Indonesia (CPI), Rumbai, 13 – 17 April 2009.
56. Advanced Flow Metering, Chevron Pacific Indonesia (CPI), Rumbai, 13 – 17 April 2009.
57. DCS Operation and Maintenance, Chevron Pacific Indonesia (CPI), Rumbai, 20 – 24 April 2009.
58. PLC Connects to Ethernet, Pembangkit Jawa Bali (PJB) – PLN, Bandung, 4 – 8 May 2009.
59. Industrial Instrumentation and Control, Pembangkit Jawa Bali (PJB) – PLN, Bandung, 11 – 15 May 2009.
60. Industrial Instrumentation and Control, Pembangkit Jawa Bali (PJB) – PLN, Bandung, 1 – 5 June 2009.
61. PLC Operation, Programming and Maintenance, Pembangkit Jawa Bali (PJB) – PLN, Bandung, 8 – 12 June 2009.
62. Choke and Control Valves, (Indonesia Power and DEN), PT. Fiqry Jaya Manunggal (FJM), Papandayan Hotel, Bandung, 27-31 Juli, 2009.
63. PLC Operation, Programming and Maintenance, Pembangkit Jawa Bali (PJB) – PLN, Bandung, 10 – 14 August 2009.
64. Electrical Control Wiring, Chevron Pacific Indonesia (CPI), Duri, 31 August-4 September 2009.
65. Root Cause Failure Analysis (RCFA), PT. PJB, 5-8 October, 2009, Cirata-Purwakarta, Jawa Barat
66. Fiscal Metering, PT. Total Indonesia, PT. Transfera, Pacific Hotel, 12-14 October 2009, Balikpapan, Kalimantan
67. Fiscal Metering, PT. Total Indonesia, PT. Transfera, Pacific Hotel, 26-28 October 2009, Balikpapan, Kalimantan
68. Programmable Logic Controller, Chevron Pacific Indonesia (CPI), Rumbai, 14-17 Desember 2009.
69. Basic Instrumentation, Chevron Pacific Indonesia (CPI), Rumbai, 8-12 February 2010.
70. Programmable Logic Controller (PLC), PT. Pertamina, Center for Instrumentation Technology and Automation, ITB-Bandung, 1-4 March, 2010.
71. Safety Instrumented System (SIS), PT. Surya Daya Mandiri (SDM) for Conoco-Philips and TGN, 9-12 March, 2010, Santika Hotel, Bandung, Jawa Barat.
72. Programmable Logic Controller (PLC), PT. Pertamina, Center for Instrumentation Technology and Automation, ITB-Bandung, 22-25 March, 2010.
73. Programmable Logic Controller (PLC), PT. Pertamina, Center for Instrumentation Technology and Automation, ITB-Bandung, 29 March - April, 2010.
74. Fiscal and Custody Transfer, PT. Pertamina, Center for Instrumentation Technology and Automation, ITB-Bandung, 12-15 April, 2010.

75. Programmable Logic Controller, Chevron Pacific Indonesia (CPI), PT. Fiqry Jaya Manunggal (FJM), Rumbai, 19-23 April 2010.
76. Metering System and Automatic Tank Gauging, PT. Pertamina, Center for Instrumentation Technology and Automation, ITB-Bandung, 03 – 07 May, 2010.
77. Metering System and Automatic Tank Gauging, PT. Pertamina, Center for Instrumentation Technology and Automation, ITB-Bandung, 10 – 21 May, 2010.
78. Basic Instrumentation, PT. Pertamina, Center for Instrumentation Technology and Automation, ITB-Bandung, 17 – 21 May, 2010.
79. Instrumentation and Process Control Systems, Chevron Balikpapan, Balikpapan, 31 May – 4 June, 2010.
80. Safety Instrumented and Control Systems, (Pearl Oil and PT. Candra Asri), PT. Fiqry Jaya Manunggal (FJM), Grand Seriti Hotel, Bandung, 7-11 June, 2010.
81. Oil and Gas Metering and Custody Transfer, PT. Fiqry Jaya Manunggal (FJM), Melia Purosani Hotel, Yogyakarta, 5-9 July, 2010.
82. Instrumentation and Control Systems, KOMA Training for Premier Oil, Sheraton Hotel, Bandung, 17-20 July 2010.
83. Advanced Flow Measurement, PT. Surya Daya Mandiri (SDM), Santika Hotel, Bandung, 19-23 July 2010.
84. Instrumentation and Control Systems, KOMA Training for Premier Oil, Sheraton Hotel, Bandung, 30 July -2 August 2010.
85. Fiscal and Custody Transfer, PT. Pertamina, Center for Instrumentation Technology and Automation, ITB-Bandung, 2-6 August 2010.
86. Metering System and Automatic Tank Gauging, PT. Pertamina, Center for Instrumentation Technology and Automation, ITB-Bandung, 2-6 August 2010.
87. Electrical Power Distributed Control Systems (DCS), PT. Fiqry Jaya Manunggal (FJM), Grand Seriti Hotel, Bandung, 23-26 August 2010.
88. PLC Allen-Bradley, Chevron Indonesia Company, Balikpapan, 20 - 24 September, 2010.
89. PLC Allen-Bradley, Chevron Indonesia Company, Balikpapan, 27 September – 1 Oktober, 2010.
90. Advanced Flow Measurement, PT. Surya Daya Mandiri (SDM), Holiday Inn, Bandung, 12-15 October 2010.
91. API RP 500 and API RP 14 C, CNOOC, PT. One Utama, Manhattan Hotel, Jakarta, November 9-10, 2010.
92. API RP 500 and API RP 14 C, CNOOC, PT. One Utama, Manhattan Hotel, Jakarta, November 15-16, 2010.
93. API RP 500 and API RP 14 C, CNOOC, PT. One Utama, Manhattan Hotel, Jakarta, November 23-24, 2010.
94. SCADA, CNOOC & Chandra Asri, PT. One Utama, Jayakarta Boutique Hotel, Bandung, November 23-26, 2010.
95. Piping and Instrument Diagram (P&ID), KOMA Training for Premier Oil, Bandung, Grand Preanger Hotel, November 27-30, 2010
96. SCADA Systems, PT. Chevron Pacific Indonesia, Duri, November 29-December 3, 2010.
97. Distributed Control Systems (DCS), PT. Total Indonesia, Menara Bahtera Hotel, Balikpapan, December 8-11, 2010.
98. Piping and Instrument Diagram (P&ID), KOMA Training for Premier Oil, Bandung, Sensa Hotel, December 11-14, 2010
99. Instrumentation, Electronics and Control Systems, PT. Fiqry Jaya Manunggal for CNOOC, PetroChina, ConocoPhillips. Pertamina, Showa), Golden Flower Hotel, Bandung, December 14-17, 2010.

100. SQL, InTouch, OPC, PT. PatrariJaya, InHouse Training for PT. Indonesia Asahan Aluminium (INALUM), Tanjung Gading, Sumatera Utara, December 13-21, 2010.
101. Piping and Instrument Diagram (P&ID), KOMA Training for Premier Oil, Bandung, Sensa Hotel, January 2-5, 2011.
102. Fiscal and Custody Transfer, PT. Pertamina, Center for Instrumentation Technology and Automation, ITB-Bandung, 24-28 January 2011.
103. Metering System and Automatic Tank Gauging, PT. Pertamina, Center for Instrumentation Technology and Automation, ITB-Bandung, 7-12 February 2011.
104. Piping and Instrument Diagram (P&ID), KOMA Training for Premier Oil, Bandung, Sensa Hotel, February 12-15, 2011.
105. Fiscal and Custody Transfer, PT. Pertamina, Center for Instrumentation Technology and Automation, ITB-Bandung, 21-25 February 2011.
106. Fiscal and Custody Transfer, PT. Pertamina, Center for Instrumentation Technology and Automation, ITB-Bandung, 7-11 March 2011.
107. Metering System and Automatic Tank Gauging, PT. Pertamina, Center for Instrumentation Technology and Automation, ITB-Bandung, 14-18 March 2011.
108. Fiscal and Custody Transfer, PT. Pertamina, Center for Instrumentation Technology and Automation, ITB-Bandung, 28 March-1 April 2011.
109. Basic Instrument, PT. Pertamina, Center for Instrumentation Technology and Automation, ITB-Bandung, 4-8 April 2011.
110. Instrumentation, Electrical and Control Systems, PT. Fiqry Jaya Manunggal (FJM), Duri-Riau, 11-14 April 2011.
111. Basic Instrument, PT. Pertamina, Center for Instrumentation Technology and Automation, ITB-Bandung, 25-29 April 2011.
112. Process Control and Instrumentation, PT. One Utama for CNOOC SES, Bandung, Sensa Hotel, 3-6 May 2011, 2011.
113. PLC Connects to Ethernet, PT. Fiqry Jaya Manunggal (FJM) for Titis Sampurna-Palembang, Grand Seriti Hotel, Bandung, 10-14 May 2011.
114. Plant Automation by PLC, DCS, MMI, PT. Surya Daya Mandiri for TGI-Batam, Novotel Hotel, Bandung, 10-13 May 2011.
115. Process Control and Instrumentation, PT. One Utama for CNOOC SES and TGI-Jambi, Bandung, Sensa Hotel, 16-19 May, 2011.
116. Process Control and Instrumentation, PT. One Utama for CNOOC SES, Bandung, Sensa Hotel, 26-29 May, 2011.
117. DCS Development, PT. Patra Rijaya for Pupuk Kaltim and Badak LNG, ITB-Bandung, May 26, 2011.
118. Production Safety Systems, PT. One Utama for Chevron Balikpapan, Balikpapan, Grand Jatra Hotel, 6-7 June, 2011.
119. Production Safety Systems, PT. One Utama for Chevron Balikpapan, Balikpapan, Grand Jatra Hotel, 14-15 June, 2011.
120. OPC (Open Process Control), PT. Proline Training for Chevron Gunung Salak, Bandung, Golden Flower Hotel, 16-18 June 2011.
121. Production Safety Systems, PT. One Utama for Chevron Balikpapan, Balikpapan, Grand Jatra Hotel, 22-23 June, 2011.
122. OPC (Open Process Control), PT. Proline Training for Chevron Gunung Salak and PT. Inalum, Bandung, Golden Flower Hotel, 4-8 July 2011.
123. Instrumentation and Control, PT. Fiqry Jaya Manunggal (FJM) for ConocoPhillips, Dharmawangsa Hotel, Jakarta, 25-29 July 2011.
124. Wellhead Control Panel Operation, PT. Fiqry Jaya Manunggal (FJM) for Total E&P Indonesia, Blue Sky Hotel, Balikpapan, 8-12 August 2011.

125. Wellhead Control Panel Operation, PT. Fiqry Jaya Manunggal (FJM) for Total E&P Indonesia, Blue Sky Hotel, Balikpapan, 19-23 September 2011.
126. Basic Instrument and Process Control, PT. Patrari Jaya, Melia Purosani Hotel, Yogyakarta, 24-27 September 2011.
127. Instrumentation, Electrical and Control, PT. Fiqry Jaya Manunggal (FJM), Grand Seriti Hotel, Bandung, 24-28 September 2011.
128. Electrical Control Wiring, PT. Mairodi Mandiri Sejahtera (MMS), Golden Flower Hotel, Bandung, 3-6 October 2011.
129. Flow Assurance for Piping System, PT. Fiqry Jaya Manunggal (FJM), PT. Chevron Pacific Indonesia, Training Center, Duri, 17-21 October 2011.
130. Control Systems Fundamentals, PT. Fiqry Jaya Manunggal (FJM) for Chevron Geothermal Indonesia and PT. Mandau Cipta Tenaga Nusantara, Sheraton Hotel & Tower, Bandung, 24-28 October 2011.
131. Basic & Advance Instrument Logic, PT. Fiqry Jaya Manunggal (FJM) for Total E&P Indonesia, Golden Flower Hotel, Bandung, 27-31 October 2011.
132. Fiscal and Custody Transfer, PT. Pertamina, Center for Instrumentation Technology and Automation, ITB-Bandung, 1-2 November 2011.
133. Fiscal and Custody Metering, KOMA Training for ConocoPhillips, VIO Hotel, Bandung, 21-24 November 2011.
134. Anti Surge Control of Compressor: Instrumentation and Control Systems, PT. Meridian Duta Mandiri (MDM) for PT. Petrokimia Gresik, Karangsetra Hotel, Bandung, 21-24 February 2012.
135. Basic PLC for Engineering Physics Students, Intelligent Control and Automation Laboratory, Faculty of Industrial Technology, ITB, Bandung, 27-29 February 2012.
136. Control Valve: Operation, Sizing, Installation & Maintenance, PT. Fiqry Jaya Manunggal (FJM) for Mitsubishi Chemical Industries, Cilegon, TP. Rachmat Bld. ITB, Bandung, 6-9 March 2012.
137. Flow Metering & Custody Transfer, PT. Pertamina, Center for Instrumentation Technology and Automation, Sabuga Hall, Bandung, 12 March 2012.
138. Fluid Flow – Gas Metering and Custody Transfer, PT. Mairodi Mandiri Sejahtera (MMS), Golden Flower Hotel, 2-6 April 2012.
139. Basic PLC for Engineering Physics Students, Intelligent Control and Automation Laboratory, Faculty of Industrial Technology, ITB, Bandung, 17-19 April 2012.
140. Process Control & Instrumentation, PT. Surya Daya Mandiri (SDM) for Total E&P Indonesia, Menara Bahtera Hotel, Balikpapan, 23-26 April 2012.
141. SCADA Systems, PT. Prosafe Binatama for Chevron Pacific Indonesia, Duri Training Center, Riau, 7-10 May 2012.
142. Distributed Control Systems (DCS), PT. Fiqry Jaya Manunggal (FJM) for Total E&P Indonesia, The Papandayan Hotel, Bandung, 21-24 May 2012.
143. Well Instrument and Hydraulic Control Panel, PT. Fiqry Jaya Manunggal (FJM) for Total E&P Indonesia, Blue Sky Hotel, Balikpapan, 28 May-1 June 2012.
144. Process Control and Instrumentation, PT. Surya Daya Mandiri (SDM) for Total E&P Indonesia, Menara Bahtera Hotel, Balikpapan, 11-14 June 2012.
145. Basic Distributed Control Systems (DCS), PLC Research and Training, ITB-Bandung, 16-18 June 2012.
146. Well Instrument and Hydraulic Control Panel, PT. Fiqry Jaya Manunggal (FJM) for Total E&P Indonesia, Blue Sky Hotel, Balikpapan, 8 - 13 July 2012.

147. Safety Instrumented Systems (SIS): IEC 61508, IEC 61511 and ISA SP 84, PT. Fiqry Jaya Manunggal (FJM) for Chevron Geothermal, Gunung Salak, The Papandayan Hotel, Bandung, 16-19 July 2012.
148. Fluid Flow – Gas Metering & Custody Transfer, PT. Mairodi Mandiri Sejahtera (MMS) for PT. Binatama, Chandra Asri, Indonesia Power Suralaya, Harris Hotel Tebet, Jakarta, 23-25 July 2012.
149. Industrial Flow Meter, PT. Fiqry Jaya Manunggal (FJM) for Chevron Pacific Indonesia, Duri Training Center, Riau, 8-10 August 2012.
150. Programmable Logic Controller (PLC), PT. Fiqry Jaya Manunggal (FJM) for Chevron Pacific Indonesia, Rumbai Training Center, Riau, 3-6 September 2012.
151. Process Control and Instrumentation, PT. Surya Daya Mandiri (SDM) for Total E&P Indonesia, Menara Bahtera Hotel, Balikpapan, 17-20 September 2012.
152. Advanced PID Controller, PT. Mairodi Mandiri Sejahtera (MMS), Carrcadin Hotel, Bandung, 26-29 September 2012.
153. Safety Instrumented System & Control, PT. Fresh Consultant, Golden Flower Hotel, Bandung, 2-5 October 2012.
154. Flow Assurance for Pipe Line System, PT. Mairodi Mandiri Sejahtera (MMS), Golden Flower Hotel, Bandung, 15-18 October 2012.
155. Distributed Control Systems, Intelligent Control and Automation Laboratory, Bandung Institute of Technology, 22-24 October 2012.
156. Programmable Logic Controller (PLC), PT. Fiqry Jaya Manunggal (FJM) for Chevron Pacific Indonesia, Duri Training Center, Riau, 5-8 November 2012.
157. Instrumentation, Electronics Control Systems, PT. Fiqry Jaya Manunggal (FJM), Grand Papandayan Hotel, Bandung, 20-23 November 2012.
158. Root Cause Failure Analysis (RCFA). KOMA Training, Vio Hotel, Bandung, 3-6 December 2012.
159. Applying Instrumentation in Hazardous Area, PT. Fiqry Jaya Manunggal (FJM) for Chevron Pacific Indonesia, Duri Training Center, Riau, 10-13 Desember 2012.
160. Process Control and Instrumentation, PT. Surya Daya Mandiri (SDM) for Total E&P Indonesia, Menara Bahtera Hotel, Balikpapan, 8-11 January 2013.
161. Process Control and Instrumentation, PT. Surya Daya Mandiri (SDM) for Total E&P Indonesia, Menara Bahtera Hotel, Balikpapan, 28-31 January 2013.
162. PLC (Programmable Logic Controller), Intelligent Control & Automation Laboratory, ITB, Bandung, 4-6 March 2013.
163. Piping and Instrument Diagram (P&ID), PT. Aneka Tambang (ANTAM), Harris Hotel, Sentul City, Bogor, 13-15 March 2013.
164. Flow Assurance for Pipeline Systems, PT. Fiqry Jaya Manunggal (FJM) for Chevron Indonesia Company, Pasir Ridge Training Center, Balikpapan, 18-22 March 2013.
165. Programmable Logic Controller (PLC), PT. Fiqry Jaya Manunggal (FJM), Novotel Hotel, Bandung, 25-28 March 2013.
166. Control Valve: Operation, Sizing and Maintenance, PT. Solid Corporation for Chevron Gunung Salak, Golden Flower Hotel, Bandung, 25-28 March 2013.
167. Programmable Logic Controller (PLC), PT. Fiqry Jaya Manunggal (FJM) for Chevron Pacific Indonesia, Dumai Country Club, Dumai, 1-4 April 2013.
168. Programmable Logic Controller (PLC): Siemens and TIA Portal, PLC Research and Training for PT. TMU, Cimahi-Bandung, 16-17 April 2013.
169. SCADA Systems, PT. Fiqry Jaya Manunggal (FJM) for Chevron Indonesia Co., Menara Bahtera Hotel, Balikpapan, 29 April – 2 May 2013.

170. Distributed Control Systems (DCS), PT. Fiqry Jaya Manunggal (FJM) for Chevron Indonesia Co., Menara Bahtera Hotel, Balikpapan, 6 – 9 May 2013.
171. Instrumentation for Operators, PT. Fiqry Jaya Manunggal (FJM) for Chevron Pacific Indonesia, Rumbai, 20-23 May 2013.
172. SCADA Systems, PT. Fiqry Jaya Manunggal (FJM), Golden Flower Hotel, Bandung, 27-30 May 2013.
173. Programmable Logic Controller (PLC), PT. Fiqry Jaya Manunggal (FJM) for Chevron Indonesia Company, Pasir Ridge Country Club, Balikpapan, 17-20 June 2013.
174. Alarm and Annunciator, PT. Fiqry Jaya Manunggal (FJM) for Chevron Pacific Indonesia, Rumbai, 24-20 June 2013.
175. Instrumentation, Electrical and Process Control, PT. Fiqry Jaya Manunggal (FJM) for Chevron Pacific Indonesia, Duri, 1-4 July 2013.
176. Fluid Flow and Gas Metering–Custody Transfer, PT. Mairodi Mandiri Sejahtera (MMS), Gino Feruci Hotel, Bandung, 15-20 July 2013.
177. Alarm and Emergency Shutdown Systems (ESD), PT. Fiqry Jaya Manunggal (FJM) for Chevron Pacific Indonesia, Rumbai, 19-22 August 2013.
178. Emergency Shutdown Systems (ESD), PT. Fiqry Jaya Manunggal (FJM) for Chevron Pacific Indonesia, Duri, 2-6 September 2013.
179. Wellhead Instrumentation & Control Systems, PT. Mairodi Mandiri Sejahtera (MMS), Gino Feruci Hotel, Bandung, 11-14 September 2013.
180. Programmable Logic Controller (PLC), PT. Fiqry Jaya Manunggal (FJM) for Chevron Indonesia Company, Menara Bahtera Hotel, Balikpapan, 16-19 September 2013.
181. Root Cause Failure Analysis (RCFA), PT. Mairodi Mandiri Sejahtera (MMS), Amarossa Hotel, Bandung, 23-26 September 2013.
182. Wellhead Instrumentation & Control Systems, PT. BTCO, Aston Tropicana Hotel, Bandung, 30 September-3 October 2013.
183. Root Cause Failure Analysis (RCFA), PT. Mairodi Mandiri Sejahtera (MMS), PT. Gunanusa Utama Fabricator, Cilegon, 4 October 2013.
184. Human Machine Interface (HMI): Wonderware Intouch, PT. Fiqry Jaya Manunggal (FJM) for Chevron Indonesia Company, Pasir Ridge Country Club, Balikpapan, 7-10 October 2013.
185. Root Cause Failure Analysis (RCFA), PT. Mairodi Mandiri Sejahtera (MMS), PT. Gunanusa Utama Fabricator, Cilegon, 11 October 2013.
186. Instrumentation and Process Control, PT. Surya Daya Mandiri (SDM) for Total E&P, Menara Bahtera Hotel, Balikpapan, 16-18 October 2013.
187. Flow Assurance in Pipeline Systems, KOMA Training for ConocoPhillips, Banana Inn, Bandung, 23-26 October 2013.
188. Programmable Logic Controller (PLC), PT. BTCO, Grand Papandayan Hotel, Bandung, 28-31 October 2013.
189. Wellhead Instrumentation & Control Systems, PT. Mairodi Mandiri Sejahtera (MMS), Amarossa Hotel, Bandung, 30 October-2 November 2013.
190. Programmable Logic Controller (PLC), PT. Petratama Adi Nusa (PAN) for Chevron Pacific Indonesia, Rumbai Training Center, Rumbai-Riau, 18-21 November 2013.
191. Flow Assurance in Pipeline Systems, KOMA Training for ConocoPhillips, Banana Inn, Bandung, 11-14 December 2013.
192. Piping and Instrument Diagram (P&ID), PT. Petratama Abdi Nusa (PAN), for Chevron Pacific Indonesia, Rumbai Training Center, Rumbai-Riau, 10-13 February 2014.

193. Flow Metering, PT. Petratama Abdi Nusa (PAN), for Chevron Pacific Indonesia, Rumbai Training Center, Rumbai-Riau, 17-21 February 2014.
194. Instrumentation and Control, PT. Petratama Abdi Nusa (PAN), for Chevron Pacific Indonesia, Duri Training Center, Duri-Riau, 24-28 February 2014.
195. Safety Shutdown Systems, PT. Petratama Abdi Nusa (PAN), for Chevron Pacific Indonesia, Duri Training Center, Duri-Riau, 10-14 March 2014.
196. SCADA Systems, PT. Petratama Abdi Nusa (PAN), for Chevron Indonesia Company, Pasir Ridge Training Center, Balikpapan-Kalimantan Timur, 17-20 March 2014.
197. Flow Assurance in Pipeline Systems, PT. Petratama Abdi Nusa (PAN), for Chevron Pacific Indonesia, Duri Training Center, Duri-Riau, 24-29 March 2014.
198. Gas Turbine Control, PT. Petratama Abdi Nusa (PAN), for Chevron Pacific Indonesia, Dumai Country Club, Dumai-Riau, 1-4 April 2014.
199. Root Cause Failure Analysis (RCFA), PT. Mairodi Mandiri Sejahtera (MMS), PT. Dian Swastatika Sentosa (DSS), Serpong-Tangerang, 7-8 April 2014.
200. Control System Fundamentals, PT. Petratama Abdi Nusa (PAN), for Chevron Pacific Indonesia, Dumai Country Club, Dumai-Riau, 14-17 April 2014.
201. Safety Shutdown Systems, PT. Petratama Abdi Nusa (PAN), for Chevron Pacific Indonesia, Duri Training Center, Duri-Riau, 21-25 April 2014.
202. Flow Measurement, PT. Petratama Abdi Nusa (PAN), for Chevron Pacific Indonesia, Dumai Country Club, Dumai-Riau, 5-8 May 2014.
203. Custody Transfer & Flow Measurement Workshop, PT. Pertamina – PT. Timah, Tbk., TS Suites Hotel, Surabaya, 12 May 2014.
204. Custody Transfer for Oil and Gas, CV. KOMA Training for Indonesia Power, Indonesia Power Service Centre, Jakarta, 12-14 May 2014.
205. SCADA System, PT. Fiqry Jaya Manunggal (FJM) for Total E&P Indonesia, Sensa Hotel, Bandung, 26-29 May 2014.
206. Safety Systems and Integrity Level: IEC 61508/61511 and ISA S.84, PT BTCO, Aston Tropicana Hotel, Bandung, 2-5 June 2014.
207. Advanced Process Control, PT. Zigot Mediatama, in house for PT Chandra Asri, Cilegon, Chandra Asri Plant-Cilegon, 23-27 June 2014,
208. Instrumentation, Control and Safety, PT Fiqry Jaya Manunggal for PT Total E&P Indonesia, Blue Sky Hotel, Balikpapan, 11-13 August 2014.
209. Ultrasonics Gas Flow Meter, PT Mairodi Mandiri Sejahtera for PT PGN, Gino Feruci Hotel Bandung, 25-29 August 2014.
210. Ultrasonics Gas Flow Meter, PT Mairodi Mandiri Sejahtera for PT PGN, Gino Feruci Hotel Bandung, 1-5 September 2014.
211. Instrumentation, Control and Safety, PT Fiqry Jaya Manunggal for PT Total E&P Indonesia, Blue Sky Hotel, Balikpapan, 8-10 October 2014.
212. Introduction to Flow Metering, PT. Cakrawala Cemerlang, Melia Purosani Hotel, Yogyakarta, 20-23 October 2014.
213. Industrial Flow Meter, PT. Reksolindo, in house for PT. PGN, Aston Primera Hotel, Bandung, 11-14 November 2014.
214. Writing Papers for International Publication on SCOPUS & SCI/SCIE, IEEE Indonesia Control Systems Society/Robotics & Automation Society Joint Chapter, Aston Tropicana Hotel, Bandung, 25-27 November 2014.
215. Advanced Instrumentation: Troubleshooting and Maintenance, PT. Mairodi Mandiri Sejahtera (MMS), in house for PT. Chandra Asri, Chandra Asri Plant-Cilegon, 8-9 December 2014.
216. Introduction to Industrial Automation, PT. Sinergy Mitra Utama for Chevron SMO, Golden Flower Hotel, Bandung, December 15-17, 2014.

217. Calibration, Verification and Validation Methods (ISO-IEC 17025), PT. Karya Indo Sinergi, Grand Serella Hotel, Bandung, December 18-20, 2014.
218. Programmable Logic Controller (PLC), PT. Discovery Synergi, for Chevron Pacific Indonesia, Duri Training Center, Duri-Riau, 2-5 February 2015.
219. HMI Wonderware Intouch Development, PT. Discovery Synergi, for Chevron Pacific Indonesia, Duri Training Center, Duri-Riau, 23-27 February 2015.
220. Application of Industrial Automation, Ministry of Industry – Indonesia, Sahid Hotel, Jakarta, 11 March 2015.
221. Wellhead Hydraulic Control Panel, PT. PT Fiqry Jaya Manunggal for PT Total E&P Indonesia, Menara Bahtera Hotel, Balikpapan, 12-14 March 2015.
222. Building Automation System, PT. MELC, Institut Teknologi Bandung, 16-18 March 2015.
223. Distributed Control Systems (DCS), PT Mairodi Mandiri Sejahtera, Grand Serella Hotel, Bandung, 16-18 March 2015.
224. Gas Turbine Control using Contrologix, PT. Synergi Mitra Utama, Aston Tropicana Hotel, Bandung, 23-26 March, 2015.
225. Distributed Control Systems (DCS) for Operators, PT Patriatek, Petrochina International Jabung, Jambi, 8-10 April 2015.
226. Flow Assurance in Pipe Line, CV. Koma Training, Banana Inn Hotel, Bandung, 27-30 April 2015.
227. Programmable Logic Controller (PLC), PT. Fiqry Jaya Manunggal (FJM), Aston Hotel, Bandung, 26-29 April 2015.
228. Writing Papers for International Publication on SCOPUS & SCI/SCIE, IEEE Indonesia Control Systems Society/Robotics & Automation Society Joint Chapter, Serella Hotel, Bandung, 4-6 August 2015.
229. HMI Wonderware Intouch Development, PT. Patrarijaya, for Chevron Pacific Indonesia, Grand Zuri Hotel, Duri-Riau, 1-3 September 2015.
230. Calibration ISO/IEC 17025, PT. Mairodi Mandiri Sejahtera (MMS), Grand Setiabudi Hotel, Bandung, 14-17 September 2015.
231. Fiscal and Custody Transfer, PT. Mairodi Mandiri Sejahtera (MMS), Amaroossa Hotel, Bandung, 29 September-2 October 2015.
232. Distributed Control Systems (DCS), PT. BICO, Luxton Hotel, Bandung, 6-8 October 2015.
233. Fluid Flow Gas Fiscal and Custody Transfer, PT. Mairodi Mandiri Sejahtera (MMS), Amaroossa Hotel, Bandung, 26-30 October 2015.
234. Advanced Process Control, PT. Fiqry Jaya Manunggal (FJM), Serela Hotel Merdeka, Bandung, 28-30 October 2015.
235. Advanced PID Controller, PT. Fiqry Jaya Mandiri (FJM), Serela Hotel Cihampelas, Bandung, 11-14 July 2016.
236. Control Valve and Choke Valve, PT. Fiqry Jaya Mandiri (FJM), Serela Hotel Cihampelas, Bandung, 15-18 August 2016.
237. Root Cause Failure Analysis (RCFA), PT. Mairodi Mandiri Sejahtera (MMS), PT. Indonesia Power, Grand Setiabudi Hotel, Bandung, 17-20 October 2016.
238. PID Controller Tuning, PT. Mairodi Mandiri Sejahtera (MMS), Tune Hotel, Bandung, 28-30 March 2017.
239. Human Machine Interface (HMI)-SCITECT, PT. Fiqry Jaya Manunggal (FJM), PT. Indonesia Power, Amaris Hotel, Cilegon, 10-13 April 2017.
240. Human Machine Interface (HMI)-SCITECT, PT. Fiqry Jaya Manunggal (FJM), PT. Indonesia Power, Amaris Hotel, Cilegon, 25-28 April 2017.

241. Programmable Logic Controller, PT. Fiqry Jaya Manunggal (FJM), PT. Indonesia Power, Grand Serela Hotel, Bandung, 3-6 May 2017.
242. Safety Instrumented Systems (SIS) IEC 61508-IEC 61511, PT. Mairodi Mandiri Sejahtera (MMS), DIKLAT PT. KAI Jl. Laswi Bandung, 22-24 May 2017.
243. OPC and HMI, PT. Fiqry Jaya Manunggal (FJM), PT. Indonesia Power, Dago Bengkok, Bandung, 26-28 July 2017.
244. OPC and HMI, PT. Fiqry Jaya Manunggal (FJM), PT. Indonesia Power, Dago Bengkok, Bandung, 2-4 August 2017.
245. Root Cause Failure Analysis (RCFS), PT. Iforbit, Noor Hotel, Bandung, 28-30 August 2017.
246. SCADA System, PT. KOMA Training, Noor Hotel, Bandung, 16-19 October 2017.
247. Access Control and Instrusion, Cilegon, 8-9 January 2018.
248. Design of Experiment, PT. Mairodi Mandiri Sejahtera (MMS), Grand Setiabudi Hotel, Bandung, 16-19 April 2018.
- 249.
250. Process Control and Instrumentation, PT. Fiqry Jaya Manunggal (FJM), Bandung, 7-10 Mei 2018.
251. Distributed Control Systems (DCS), PT. Fiqry Jaya Manunggal (FJM), Balikpapan Training Center, Pertamina Hulu Mahakam (PHM), Balikpapan, 12-14 Mei 2018.
252. Network Management and Topology Design, PT. Fresh Consultant, Indonesia Power, Santika Hotel, Surabaya, 6-7 June 2018.
253. Distributed Control Systems (DCS), PT. Fiqry Jaya Manunggal (FJM), Balikpapan Training Center, Pertamina Hulu Mahakam (PHM), Balikpapan, 12-14 July 2018.
254. Gas Metering and Custody Transfer, PT. Iforbit, Grand Tebu Hotel, Bandung, 17-19 July 2018.
255. Network Management and Topology Design, PT. Fresh Consultant, Indonesia Power, Santika Hotel, Surabaya, 2-3 August 2018.
256. Gas Measurement, Custody Transfer and Metering, PT. Fiqry Jaya Manunggal (FJM), PT. Indonesia Power, Grand Tebu Hotel, Bandung, 28-31 August 2018.
257. Instrumentation, Electrical, Control Systems, PT. Fiqry Jaya Manunggal (FJM), PT. Indonesia Power, Serela Hotel, Bandung, 4-7 September 2018.
258. Basic Shutdown System-Safety Instrumented System, PT. Fiqry Jaya Manunggal (FJM), Balikpapan Training Center, Pertamina Hulu Mahakam (PHM), Balikpapan, 12-14 September 2018.
259. Safety Instrumented System (SIS), PT. Iforbit, Grand Tebu Hotel, Bandung, 17-19 September 2018.
260. Basic Instrument Calibration, PT. Smart Generation, Golden Flower Hotel, Bandung, 20-21 September 2018.
261. Basic Shutdown System-Safety Instrumented System, PT. Fiqry Jaya Manunggal (FJM), Balikpapan Training Center, Pertamina Hulu Mahakam (PHM), Balikpapan, 3-5 October 2018.
262. Advanced Surface Production Safety Systems, PT. Fiqry Jaya Manunggal (FJM), Grand Serella, Bandung, 12-16 October 2018.

Industrial Experience:

- Project Leader as Training Provider, PLC for Industrial Control and Automation, Retooling TPSDP Batch III, Directorate of Higher Education (DIKTI), Ministry of Education, LPPM-ITB, 2005.
- Project Leader as Training Provider, PLC for Industrial Control and Automation, Retooling TPSDP Batch II, Directorate of Higher Education (DIKTI), Ministry of Education, Bandung, 2004.
- Co-Provider, *Industrial Control and Automation*, Directorate of Higher Education (DIKTI), Ministry of Education, PT. Cahaya Sumirat for Retooling TPSDP Project Batch II, Bandung 2004.

Industrial Projects:

1. Signalling System at PT. KAI, Instrumentation and Control Research Group, Faculty of Industrial Technology, ITB, 2017.
2. DCS Feasibility Study of PLTGU Tanjung Priuk (PT Indonesia Power), LAPI-ITB, Bandung, August-October 2017.
3. Jasa Konsultasi Supervisi Enjiniring, Modernisasi DEHC Kamojang Unit 2, PT. Indonesia Power, LAPI-ITB, Bandung, Maret – Oktober 2017.
4. Jasa Konsultasi Kajian Pemanfaatan Gas dari CNG Plant di PLTGU TAMBAK LOROK & PLTGU PERAK GRATI, PT. Indonesia Power, LAPI-ITB, Bandung, October – Desember 2016.
5. Jasa Konsultasi Supervisi Enjiniring, Konstruksi dan Pengujian Gasifikasi dan Rehabilitasi PLTU TAMBAK LOROK 1X200 MW PT. Indonesia Power, LAPI-ITB, Bandung, Desember 2015 – Maret 2017.
6. DCS Feasibility Study of Pamaron PLTGU-Bali (PT Indonesia Power), LAPI-ITB, Bandung, 2015.
7. DCS Feasibility Study of Kamojang Geothermal Plant 1-2-3 (PT Indonesia Power), LAPI-ITB, Bandung, 2014.
8. Implementation of Smart Prepaid Gas Meter, PT. PGN (Perusahaan Gas Negara) Persero Tbk., PT. LAPI-ITB, February-November 2014.
9. Smart Gas Meter, PT. PGN (Perusahaan Gas Negara) Persero Tbk., March-July 2013.
10. Wind Turbine 100KW, Automation System Design and Consultant, Center for Research and Development of Electrical Technology, New and Renewable Energy and Energy Conservation, Ministry of Energy and Minerals Resources, Indonesia, 2011-2012.
11. General Specification of Advanced Process Control (APC) of PT. Badak NGL, Bontang – Kalimantan Timur, October 2011.
12. InTouch and Wireless Automation Consultation, PT. Indonesia Asahan Aluminium (INALUM), September 2010.
13. MODBUS Troubleshooting for Gas Compressor, PT. Badak NGL, Bontang, Kalimantan Timur, July 2010.
14. Optimization and Reliability of Railway Signaling Automation Systems, PT. KAI – ITB – Ristek, Ministry of Research and Technology, 2008.
15. Bioprocess Automation and Control Systems, Department of Chemical Engineering, ITB, 2007.

16. PLC for Control and Automation of A Greenhouse of Strawberry Hydroponic Farm, Lembang, 2004-2005
17. Greenhouse Automation, Gajah Mada University, Yogyakarta, 2004
18. Intelligent Control for Lettuce Hydroponics, Department of Agriculture, Bandung, 2001-2002.

Editor and Reviewer

Editor

- **Editor in Chief**, Journal of Instrumentation, Automation and Systems, ISIUS, UNSYSDigital, 2014.
- **Editor**, Journal of Unmanned Systems & Technology (JUST), ISIUS, UNSYSDigital, 2013.
- **Editor**, International Journal of Intelligent Unmanned Systems (IJIUS), Emerald Publisher, UK, 2012.
- **Editorial Board**, International Journal of Technology and Applied Science (IJTAS), www.ijtas.com, 2010.
- **Editorial Board**, Journal of Mechatronics, Electrical Power and Vehicular Technology, 2010.
- **Editor**, International Journal of Artificial Intelligence, www.ceser.res.in/ijai.html, 2008-present
- **Editorial Board**, International Journal of Engineering and Technology, <http://www.ijetch.org/index.htm>, 2009-present
- **Editor (Mitra Bestari)**, *Gematika Journal*, Sekolah Tinggi Manajemen Informatika dan Komputer (STIKOM), Surabaya, 2004-2008.
- **Chief Editor**, Bulletin HPPIA (Himpunan Pengajar dan Peneliti Indonesia di Australia), Australia Online Journal, ISSN 1329-2331, <http://members.tripod.com/~buletin/>, 1998-1999.

Guest Editor and Reviewer

- **Guest Editor, 2017**, Internetworking Indonesia Journal (IIJ), Special Issue of International Conference on Industrial Internet of Things (ICIOT), 23-25 November 2016, Aston Hotel, Bandung-Indonesia. (Indexed by SCOPUS, Emerging SCI, Scholar Google)
- **Guest Editor, 2016**, Internetworking Indonesia Journal (IIJ), Special Issue of International Conference on Industrial Internet of Things (ICIOT), 9-13 September 2015, Samosir Island-Indonesia. (Indexed by SCOPUS, Emerging SCI, Scholar Google)
- **Guest Editor, 2013**, International Journal of Artificial Intelligence (IJAI), Special Issue on Instrumentation, Control & Automation from 2nd International Conference on Instrumentation, Control and Automation (ICA 2011), 15-17 November 2011, Bandung-Indonesia. (Indexed by SCOPUS)
- **Guest Editor, 2013**, International Journal of Imaging and Robotics (IJIR), Special Issue on Instrumentation, Control & Automation from 2nd International Conference on Instrumentation, Control and Automation (ICA 2011), 15-17 November 2011, Bandung-Indonesia. (Indexed by SCOPUS)

- **Guest Editor, 2013**, International Journal of Applied Mathematics and Statistics (IJAMAS), Special Issue on Instrumentation, Control & Automation from 2nd International Conference on Instrumentation, Control and Automation (ICA 2011), 15-17 November 2011, Bandung-Indonesia. (Indexed by SCOPUS)
- **Guest Editor, 2011**, International Journal of Artificial Intelligence (IJAI), Special Issue on Intelligent Unmanned Systems from 6th International Conference on Intelligent Unmanned System (ICIUS-2010), 3-5 November 2010, Bali-Indonesia. (Indexed by SCOPUS)
- **Guest Editor, 2010**, Internetworking Indonesia Journal (IJJ), Special Issue of International Conference on Instrumentation, Control and Automation (ICA) from 2nd International Conference on Instrumentation, Control and Automation (ICA 2011), 20-22 October 2011, Bandung-Indonesia Bandung-Indonesia. (Indexed by SCOPUS, Scholar Google)
- **Guest Editor, 2009**, Budiyo, A., B. Riyanto, E. Joelianto, (Eds), 2009, *Intelligent Unmanned System: Theory and Application*, Studies on Computational Intelligence, Vol. 192, Springer, Berlin-Germany. ISBN 978-3-642-00263-2

Reviewer

- **Reviewer**, Journal of Aerospace Engineering, ASCE, USA, since 2011
- **Reviewer**, International Journal of Systems Science (IJSS), UK, since 2009.
- **Reviewer**, Journal of Computer and Applied Mathematics (CAM), 2007.
- **Reviewer**, ITB Journal of Engineering Sciences, since 2007.

Committee:

- **General Chair**, 2017 5th International Conference on Instrumentation, Control and Automation (ICA), 9-11 August 2017, Yogyakarta.
- **General Chair**, Research Workshop on Intelligent Transportation System (ITS) in Smart Cities Development, Bandung Institute of Technology, Bandung, Indonesia, 23 November 2016.
- **General Chair**, 2016 International Conference on Industrial Internet of Things (ICIOT), Aston Tropicana Hotel, Bandung, Indonesia, 23-25 November 2016.
- **General Chair**, 6th National Student Competition on PLC Programming with Ladder Logic, Sponsored by SIEMENS, Engineering Physics Study Program and Instrumentation and Control Research Group, Institut Teknologi Bandung, 14-16 September 2016.
- **General Chair**, 2015 International Conference on Technology, Informatics, Management, Engineering and Environment (TIME-E), Toledo Inn, Tuk-Tuk, Samosir Island, Indonesia, 7-9 September 2015.
- **General Co-Chair**, 2015 International Conference on Industrial Internet of Things (ICIOT), Toledo Inn, Tuk-Tuk, Samosir Island, Indonesia, 7-9 September 2015.
- **Organizing Committee, 2015**, 11th International Conference on Intelligent Unmanned System (ICIUS), 26-29 Augustus 2015 at Conrad Hotel-Tanjung Benoa, Bali-Indonesia.
- **General Chair**, 5th National Student Competition on PLC Programming with Ladder Logic, Sponsored by SIEMENS, Department of Engineering Physics, Institut Teknologi Bandung, 22-24 May 2014.

- **General Co-Chair, 2014**, 2nd International Conference on Technology, Informatics, Management, Engineering and Environment (TIME-E), Bandung-Indonesia, August 19-21, 2014.
- **General Chair, 2014**, International Conference on Intelligent Autonomous Agents, Networks and Systems 2014 International Conference on Intelligent Autonomous Agents, Networks and Systems (INAGENTSYS 2014), Bandung-Indonesia, August 19-21, 2014.
- **General Chair, 2013** *International Conference on Robotics, Biomimetics and Intelligent Computational Systems (ROBIONETICS)*, Sheraton Mustika Hotel, Yogyakarta, Indonesia, 25-27 November 2013.
- **Chairman, One Day Workshop on Urban Traffic Control**, Prof. Rene Boel, Gent University, Belgium, ITB, Bandung, 10 September 2013.
- **General Chair, 2013** *2nd IEEE Conference on Control, Systems and Industrial Informatics (ICCSII)*, Hyatt Hotel Bandung, Indonesia, 23-26 June 2013.
- **General Co-Chair, 2013** *International Conference on Technology, Informatics, Management, Engineering and Environment (TIME-E)*, Hyatt Hotel Bandung, Indonesia, 23-26 June 2013.
- **General Chair, 2012** *IEEE Conference on Control, Systems and Industrial Informatics (ICCSII)*, Hyatt Hotel Bandung, Indonesia, 23-26 September 2012.
- **General Chair, 4th National Student Competition on PLC Programming with Ladder Logic**, Sponsored by SIEMENS, Department of Engineering Physics, Institut Teknologi Bandung, 10-12 April 2012.
- **Technical Chair, 2nd International Conference on Instrumentation, Control and Automation (ICA2011)**, Department of Engineering Physics, Institut Teknologi Bandung, 15-17 November 2011.
- **General Chair, Two Days Workshop on Advanced Control Implementation using FPGA (Field Programmable Gate Array)**, Department of Engineering Physics, Institut Teknologi Bandung, 18-19 July 2011
- **Organizing Committee, 6th International Conference on Intelligent Unmanned Systems (ICIUS)**, 3-5 November 2010, Bali, Indonesia.
- **General Chair, 3rd National Student Competition on PLC Programming with Ladder Logic**, Sponsored by MITSUBISHI, Department of Engineering Physics, Institut Teknologi Bandung, 23-24 February 2010.
- **International Program Committee, International Conference on Instrumentation, Communication and Information Technology and Biomedical Engineering (ICICI-BME) 2009**, November Bandung, Indonesia
- **General Chair, International Conference on Instrumentation, Control and Automation (ICA2009)**, Department of Engineering Physics, Institut Teknologi Bandung, October 2009
- **International Program Committee, International Symposium on Intelligent Unmanned Systems (ISIUS 2009)**, Jeju Island - Korea, 17-19 June 2009
- **General Chair, 2nd National Student Competition on PLC Programming with Ladder Logic**, Sponsored by MITSUBISHI, Department of Engineering Physics, Institut Teknologi Bandung, 26-27 August 2008
- **Secretariat and Registration Chair, International Conference on Intelligent Unmanned Systems (ICIUS2007)**, Bali, Indonesia, 24-25 Oct., 2007
- **General Chair, National Student Competition on PLC Programming with Ladder Logic**, Sponsored by SCHNEIDER ELECTRIC, Department of Engineering Physics, Institut Teknologi Bandung, 20-21 February 2007

- **Chairman of Steering Committee**, *National Student Competition on Instrumentation and Control Design for Detection of Mitigation*, Department of Engineering Physics, Institut Teknologi Bandung, November 2006
- **Care Taker**, Organisasi Profesi Ilmiah Komunitas Mekatronika Indonesia, 2006
- **Program Committee**, *Seminar Nasional Sistem dan Teknologi Informasi (SNASTI)*, Sekolah Tinggi Manajemen Informatika dan Komputer (STIKOM), Surabaya, 26 Agustus 2006
- **International Scientific Committee**, The 5th WSEAS International Conference on INSTRUMENTATION, MEASUREMENT, CIRCUITS and SYSTEMS (IMCAS '06), Hangzhou, China, April 16-18, 2006
<http://www.worldses.org/conferences/2006/hangzhou/imcas/>
- **International Scientific Committee**, The 7th WSEAS International Conference on, MATHEMATICS AND COMPUTERS IN BUSINESS AND ECONOMICS (MCBE'06), Cavtat, Croatia, June 13-15, 2006
<http://www.worldses.org/conferences/2006/croatia/mcbe/index.html>
- **Secretariat and Registration Chair**, 6th Asian Control Conference (ASCC'06), Bali, Indonesia, July 18-21, 2006
- **International Scientific Committee**, The 5th WSEAS International Conference on INSTRUMENTATION, MEASUREMENT, CIRCUITS and SYSTEMS (IMCAS '06), Hangzhou, China, April 16-18, 2006
<http://www.worldses.org/conferences/2006/hangzhou/imcas/>
- **International Scientific Committee**, The 7th WSEAS International Conference on, MATHEMATICS AND COMPUTERS IN BUSINESS AND ECONOMICS (MCBE'06), Cavtat, Croatia, June 13-15, 2006
<http://www.worldses.org/conferences/2006/croatia/mcbe/index.html>
- **Technical Program Committee**, Computation Intelligence, Robotic and Automation, CIRA 2005, Singapore
- **International Scientific Committee**, 7th WSEAS International Conference on Applied Mathematics (MATH'05), Cancun, Mexico, May 11-14, 2005
- **International Scientific Committee**, 5th WSEAS International Conference on Instrumentation, Measurement, Control, Circuits and Systems (IMCCAS'05), Cancun, Mexico, May 11-14, 2005
- **International Scientific Committee**, 5th WSEAS International Conference on Information Science, Communications and Applications (ISCA'05), Cancun, Mexico, May 11-14, 2005
- **International Scientific Committee**, 5th WSEAS on Mathematics and Computers in Bussiness and Economics (MCBC'05), Buenos Aires, Argentina, April 2005
- **International Scientific Committee**, 5th WSEAS on Automation and Information (ICAI'05), Buenos Aires, Argentina, April 2005
- **International Scientific Committee**, 7th WSEAS International Conference on Applied Mathematics (MATH'05), Cancun, Mexico, May 11-14 2005
- **International Scientific Committee**, WSEAS International Conference on AUTOMATION & INFORMATION (ICAI 2004), Venice, Italy, November 15-17, 2004
- **International Scientific Committee**, Joint Conference Program WSEAS International Conference on Applied Mathematics (MATH'04), Instrumentation, Measurement, Control, Circuits and Systems (IMCCAS'04), Information Science, Communications and Applications (ISCA'04), Miami, Florida, April 21-23, 2004
- **Workshop Coordinator**, *Two Days Workshop and Exhibition on Industrial Automation, WIA 03*, Hyatt Regency Bandung, 3-4 July 2003

- **Organizing Committee**, National Seminar on Instrumentation and Control, Bandung-Indonesia, July 1-2, 2003
- **Workshop Coordinator**, *One Day Workshop and Exhibition on Industrial Automation, WIA 02*, Hyatt Regency Bandung, 15 April 2002

Professional Activity:

- Member WSEAS (World Society of Engineering and Sciences), since 2002
- Member, IEEE Control Systems Society, USA, since 1995
- Member, IEEE Signal Processing Society, USA, since 2008
- Indonesian Engineers Society, since 2007
- Senior Member, International Association of Computer Science and Information Technology (IACSIT), Singapore, 2008

Research Interest:

- Instrumentation and Automation Systems
- Hybrid Control Systems
- Discrete Event Control Systems
- Advanced Robust Control
- Advanced PID Controller
- Robust Model Predictive Control (MPC)
- Control Application for Bio-process and Agriculture
- Development of Advanced Process Control on PLC/DCS/Fieldbus (Conventional and OPC based)
- Petri-Nets Based Ladder Logic Programming of PLC
- UAV Control Systems
- Embedded Control Systems
- Robust Network and Optimization
- Intelligent Transportation Systems (ITS)

Teaching Undergraduate and Magister Program:

1. Communication and Network Systems
2. Industrial Automation Systems
3. Industrial Informatics
4. Dynamical Systems
5. Analytical Mechanic
6. Automatic Control Engineering
7. Adaptive Control
8. Optimization
9. Optimal Control
10. Engineering Mathematics
11. Physics Mathematics
12. Digital Control Systems

13. Modelling and Simulation
14. Process Control
15. Industrial Instrumentation and Measurement
16. Industrial Instrumentation and Control
17. Modern Control Engineering
18. Hybrid Robust Control
19. Intelligent Control Systems
20. Process and Industrial Automation
21. Industrial Informatics

Research Grant:

1. **E. Joelianto**, Fast Charging/Discharging for Electric Vehicle, Innovation Research Program, ITB, 2018.
2. **E. Joelianto**, H.Y. Sutarto, Yosi A. Hidayat, Pengembangan Algoritma dan Validasi Estimasi dan Prediksi Waktu Tempuh Kendaraan Berbasis GPS untuk Sistem Manajemen Trafik Penelitian Berbasis Kompetensi, Menristekdikti, 2018.
3. **E. Joelianto**, Pembuatan Galeri Seni Dijital Bergerak, Berenergi Hijau, Berotomasi dan Berbasis Teknologi Informasi Dijital Pengabdian Kepada Masyarakat ITB, 2018.
4. **E. Joelianto**, Miranti. I. Mandasari, Yosi A. Hidayat Sistem Kontrol dan Otomasi Kereta Api Ringan – Sistem Aeromovel Penelitian Terapan Unggulan Perguruan Tinggi – Menristekdikti, 2018.
5. P. Siregar, **E. Joelianto**, E. Yuliasuti, Kontrol Penjejukan Kendaraan Tanpa Awak di Pelabuhan Menggunakan Sensor Tracking Video Penelitian Terapan Unggulan Perguruan Tinggi – Menristekdikti, 2018.
6. **E. Joelianto**, Yul Y. Nazaruddin, A. Widyotriatmo, Cyber Physical Control Systems in Industry 4.0, P3MI – ITB, 2018.
7. **E. Joelianto**, A. Widyotriatmo, Yosi A. Hidayat, SWARM Intelligence Optimization for Enhancing Network Robustness againts Cascading Failures, Penelitian Unggulan Perguruan Tinggi ITB, 2017.
8. **E. Joelianto**, H.Y. Sutarto, A. Widyotriatmo, Pengembangan Sensor Bergerak berbasis GPS untuk Sistem Manajemen Trafik Lalu Lintas, Riset Pengembangan Ilmu Pengetahuan dan Teknologi (IPTEK), Menristek, 2017.
9. **E. Joelianto**, Uji Lapangan Variable Speed Drive (VSD) Controller, Innovation Research Program, LPIK-ITB, 2016
10. **E. Joelianto**, A. Widyotriatmo, Yosi A. Hidayat, SWARM Intelligence Optimization for Enhancing Network Robustness againts Cascading Failures, Penelitian Unggulan Perguruan Tinggi ITB, 2016.
11. **E. Joelianto**, H.Y. Sutarto, Yosi A. Hidayat, Pengembangan Sensor Bergerak berbasis GPS untuk Sistem Manajemen Trafik Lalu Lintas, Riset Pengembangan Ilmu Pengetahuan dan Teknologi (IPTEK), Menristek, 2016.
12. **E. Joelianto**, Intelligent, Optimal and Efficient Variable Speed Drive (VSD) Controller, Innovation Research Program, ITB, 2015
13. **E. Joelianto**, Analisis Parameter Seismotektonik untuk Identifikasi Perkursor dan Estimasi dalam Upaya Mitigasi Gempa Bumi, Innovation and Research Grant, ITB, 2015.
14. **E. Joelianto**, High Performance Speed Motor Control using Intelligent Based Hybrid Reference Control, Innovation Research Grant, ITB, 2014

15. **E. Joelianto**, Development of Linear Hybrid Stochastic Identification Technique for Event Detection Application of Urban Traffic Flow Decentralized Research Grant, ITB, 2013
16. **E. Joelianto**, Seismic Hazard Detection using ANFIS and Chaotic Detection of Earthquake Time Series, Innovation Research Grant, ITB, 2013
17. **E. Joelianto**, Developing Stochastic Hybrid Model for Queueing Length Estimator of Signalized Intersection, Research and Innovation ITB, 2012.
18. **E. Joelianto**, Formation Control System of Unmanned Aerial Vehicles (UAVs) using Swarm Intelligence, Higher Education Decentralized Research Grant, Indonesia, 2012.
19. **E. Joelianto**, Bake Plate Control System Design using A Robust Multiplexed Model Predictive Control with Robust Counterpart Optimization, The Asahi Glass Foundation, Japan, 2011.
20. **E. Joelianto**, Optimal and Intelligent Train Traffic Management, Competitive Research Grant, Higher Education Directorate, Indonesia, 2011.
21. Salmah, **E. Joelianto** and A. Budiyo, Hybrid Control System Modeling and Control for Safety of A Small Scale Helicopter, International Journal Publication and Research Collaboration, Higher Education Directorate, 2010-2011.
22. S. Widiyantoro, **E. Joelianto**, Pengembangan Model Untuk Estimasi Kejadian Gempa Bumi Menggunakan Metoda Adaptive Neuro Fuzzy Inference System (ANFIS) dengan Fungsi Pemetaan, Hibah Bersaing Research Grant, Higher Education Directorate, 2010.
23. **E. Joelianto**, Perancangan dan Pembuatan Aktuator Fin Roket 2 Derajat Kebebasan, National Priority Competitive Research Grant, Higher Education Directorate, 2009-2010.
24. S. Widiyantoro, **E. Joelianto**, Investigasi dan Pemodelan Seismologi untuk Pengurangan Resiko Bencana Gempa Bumi dan Tsunami, National Priority Competitive Research Grant, Higher Education Directorate, 2009.
25. **E. Joelianto, et al., 2008**, *Development of Optimization Software to Improve Management and Signaling in Railway Systems*, Applied Science Incentive Research Program, State Ministry of Research and Technolgy Republic of Indonesia, 2008.
26. **E. Joelianto**, E. Ekawati, and E.M. Budi, *Development of Plantwide Operability Software using Grid Computation*, International Research Grant, Institut Teknologi Bandung, 2008. Collaboration with Murdoch University, Australia.
27. S. Widiyantoro, D.S. Widarto, **E. Joelianto**, *Earthquake Predictability using Intelligent Systems Instrumentation*, Basic Science Incentive Research Program, State Ministry of Research and Technolgy Republic of Indonesia, 2007-2008.
28. Salmah, A. Suparwanto, A. Budiyo, **E. Joelianto**, *Hybrid Control System Design for Helicopter Model*, Hibah Bersaing, 2007-2008, Cooperative research project with Department of Mathematics, University of Gajah Mada.
29. **Joelianto, E.**, T. Setiadi and A. Trisnobudi, *Instrumentation, Control and Automation System Design of Pilot Plant of Bio-Ethanol Fermentation Process*, Competitive Research Grant, Institut Teknologi Bandung, 2007
30. **Joelianto, E.**, T. Setiadi and A. Trisnobudi, *Modelling and Control System Design of Bio-Ethanol Fermentation Process*, Competitive Research Grant, Institut Teknologi Bandung, 2006
31. Mostavan, A. and **E. Joelianto**, *Real-Time Digital Simulation of Power Systems*, SPIN-KNAW, Netherland, 2005
32. **Joelianto, E.**, *Analysis and Synthesis of A New Class of Model Predictive Control Coupled with Hybrid Reference Control*, The Asahi Glass Foundation, Japan, 2002

33. **Joelianto, E.**, *Development of A Power Tracking Control for Photovoltaics Power System Connected to Grid*, National Competitive Research Grant IX.1, Office of State Ministry of Research and Technology, Grant No. 097.12/SK/RUT/2002-2004.
34. **Joelianto, E.**, *Analysis and Synthesis of An Optimal Nutrient Uptake Control Strategy of Lactuca Sativa Hydroponic Systems*, Bagian Proyek Pengkajian Teknologi Pertanian Partisipatif Pusat (PAATP), Grant No. PL.420.0204.0644/P2TP2, 2002.
35. **Joelianto, E.**, *Development of Intelligent Control in Hydroponic Systems to Minimize Nutrient Consumption in The Growth of Lactuca Sativa*, Bagian Proyek Pengkajian Teknologi Pertanian Partisipatif Pusat (PAATP)/Proyek Pembinaan Kelembagaan Penelitian dan Pengembangan Pertanian (ARMP-II), World Bank, Grant No. PL.420.0103.0615/P2TP2, 2001.
36. **Joelianto, E.**, *Linear Impulsive Systems for Modeling, Analysis and Simulation of Hybrid Systems*, Third World Academy of Sciences (TWAS), Trieste-Italy, Grant No. 00-201 RG/MATHS/AS, 2001.
37. **Joelianto, E.**, *Developing Advanced Process Control Based on PID Controller Structures*, Quality for Undergraduate Education (QUE) Project Grant Batch II, Department of Engineering Physics-ITB, World Bank, 2000.
38. **Joelianto, E.** and K. Kadiman, *A Technique to Design Integral-Proportional (IP) Controller for DC-Servomotor*, SPP/DPP-ITB, Institute for Research, No. 13473394, 1994.
39. **Joelianto, E.** and K. Kadiman, *Frequency Weighted Controller Order Reduction using Balanced Realization*, OPF-ITB, Institute for Research, No. 13573393, 1993.
40. Kadiman, K. and **E. Joelianto**, *Adaptive Filter for Frequency Estimation of Sinusoidal Disturbance using Normalized Least Mean-Square (NLMS) Algorithm*, OPF-ITB, Institute for Research, No. 13713393, 1993.
41. Kadiman, K., S. Yuliar and **E. Joelianto**, *Model Order Reduction of Linear Systems*, OPF-ITB, Institute for Research, No. 11993392, 1992.

Publication

Journal:

International

1. Rahmat, B., **Joelianto, E.**, Purnama, I.K.E. and Hery, M., 2018, An Improved Mean Shift Using Adaptive Fuzzy Gaussian Kernel for Indonesia Vehicle License Plate Tracking, IAENG International Journal of Computer Science, 45:3, IJCS_45_3_10.
2. H.Y. Sutarto, **E. Joelianto**, and T.A. Nugroho, 2017, Developing a Stochastic Model of Queue Length at a Signalized Intersection, *International Journal on Advanced Science, Engineering and Information Technology (IJASEIT)*, Vol. 7, No. 6, pp. 2183-2188, ISSN: 2088-5334, e-ISSN: 2460-6952, (SCOPUS)
3. Yosi Agustina Hidayat, Ketut Resiki Widiastuti, and **E. Joelianto**, 2017, Refinery Scheduling for Naphta Hydrotreater Unit using Nonlinear Programming, *Journal of Engineering and Applied Sciences*, Vol. 12 No. 18, pp. 4606-4612, 2017, ISSN: 1110-1903, (SCOPUS)
4. Widyotriatmo, A., **Joelianto, E.**, Prasdianto, A., Bahtiar, H. and Nazaruddin, Y.Y., 2017. Implementation of Leader-Follower Formation Control of a Team of

- Nonholonomic Mobile Robots. *International Journal of Computers Communications & Control*, 12(6), pp.871-885.
5. Muhammad Zaky, Davindra Giovanni Airulla, **Endra Joelianto**, and Herman Y. Sutarto, 2017, Urban Traffic Simulation Using SUMO Open Source Tools, *Internetworking Indonesia Journal (IJ)*, Vol. 9, No.1, pp. 83-88, (SCOPUS).
 6. Kelvin Valentino, Kevin Christian, and **E. Joelianto**, 2017, Virtual Reality Flight Simulator, 2017, *Internetworking Indonesia Journal (IJ)*, Vol. 9, No. 1, pp. 21-25, (SCOPUS).
 7. **E. Joelianto** and B. Prakoso, 2017, Stingless Bee Foraging Behaviour Algorithm for Optimisation, *International Journal of Artificial Intelligence*. Vol. 15, No. 1, pp. 1-20, (SCOPUS).
 8. Antonyová, A., Antony, P. and **Joelianto, E.**, 2017. An Automatic Control System of the Flotation Process for The Reduction of Water Pollution. *International Journal of Ecology & Development™*, 32(2), pp.121-132.
 9. B. Rahmat, **E. Joelianto**, I K.E. Purnama, and M.H. Purnomo, 2016, Vehicle License Plate Image Segmentation System Using Cellular Neural Network Optimized by Adaptive Fuzzy and Neuro-Fuzzy Algorithms, *International Journal of Multimedia and Ubiquitous Engineering*, vol. 11, no. 12. (SCOPUS)
 10. Solikhatun, R. Saragih, **E. Joelianto** and J. Naiborhu, 2016, Robust H_∞ Control for Bilinear Systems Using the Dynamic Takagi-Sugeno Fuzzy Models Based on Linear Matrix Inequalities, *International Journal of Control and Automation*, Vol. 9, No. 7, pp.7-22. (SCOPUS)
 11. Solikhatun, R. Saragih and **E. Joelianto**, 2016, Reduced Order Bilinear Time Invariant System by Means of Error Transfer Function Least Upper Bounds, *Nonlinear Dynamics and Systems Theory*, Vol. 16, No. 2, pp. 206–220. (SCOPUS)
 12. H. Abady and **E. Joelianto**, 2016, Energy Aware Distributed Estimator System over Wireless Sensor Networks with Ad-hoc On-Demand Distance Vector (AODV) Routing Algorithm, *Internetworking Indonesia Journal (IJ)*, Vol. 8, No. 1, pp. 23-28. (terindex SCOPUS)
 13. A. Turnip, D. Soetraprawata, M. Turnip, **Endra Joelianto**, 2016, EEG-Based Brain-Controlled Wheelchair with Four Different Stimuli Frequencies, *Internetworking Indonesia Journal (IJ)*, Vol. 8, No. 1, pp. 65-69. (terindex SCOPUS)
 14. Antonyová, A., Antony, P., **E. Joelianto**, 2015, Modeling of Dynamic Responses in Building Insulation, *J. Eng. Technol. Sci.*, Vol. 47, No. 5, pp. 536-548. (terindex SCOPUS)
 15. A.F. Sompotan, N.T. Puspito, **E. Joelianto** and K. Hattori, 2015, Analysis of Ionospheric Precursor of Earthquake using GIM-TEC, Kriging and Neural Network, *Asian Journal of Earthquake Sciences (AJES)*, Vol. 8, No. 2, pp. 32-44, eISSN 2152-3509, pISSN 1819-1886.
 16. H.Y. Sutarto, R.K. Boel and **E. Joelianto**, 2015, Parameter Estimation for Stochastic Hybrid Model Applied to Urban Traffic Flow Estimation, *IET Control Theory and Application*, ISSN 1751-8644, Vol. 9(11), 16 July 2015, pp. 1683 – 1691.
 17. H.Y. Sutarto and **E. Joelianto**, 2015, Modeling, Identification, Estimation and Simulation of Urban Traffic Flow in Jakarta-Bandung, *Journal of Mechatronics, Electrical Power and Vehicular Technology* ISSN 2087-3379 (print) 2088-6985 (Online), Vol. 6, pp. 57-66.
 18. H.Y. Sutarto and **E. Joelianto**, 2015, Expectation-Maximization Based Parameter Identification for HMM of Urban Traffic Flow, *International Journal of Applied Mathematics and Statistics (IJAMAS)* ISSN 0973-1377 (print) 0973-7545 (Online), Vol. 53, No. 2, pp. 90-101/2015.
 19. **E. Joelianto**, 2014, Finite Horizon Optimal Hybrid Reference Control for Improving Transient Response of Feedback Control Systems, *International Journal of*

- Systems Science (IJSS)*, Vol. 45, No. 9, 1814-1829.
20. A. Antonyová, P. Antony, P., and **E. Joelianto**, 2013, Statistical Analysis as Approach to Reliability Testing of Thermal properties in Building Insulation, *International Journal of Applied Mathematics and Statistics (IJAMAS)*, Vol. 48, No. 18, 1-14. (SCOPUS)
 21. Megawati, N.Y., Salmah, Wijayanti, I.E., **Joelianto, E.**, Budiyono, A., 2013, Safety Analysis of Complex Eigenvalues with SOS. *International Journal of Imaging and Robotics (IJIR)*, Vol. 10, No. 2, pp. 105-120. (SCOPUS)
 22. Salmah, Solikhatus, Megawati, N.Y., **Joelianto, E.**, Budiyono, A., 2013, Control of Autonomous Helicopter Models with Robust H_2 -Type Switched Linear Controller, *International Journal of Applied Mathematics and Statistics (IJAMAS)*, Vol. 35, No. 5, 137-148. (SCOPUS)
 23. **E. Joelianto**, A. Setiawan and D. Chaerani, 2013, Hardware in the Loop Simulation of Railway Traffic Re-scheduling by Means of MILP Algorithm during Disturbances, *International Journal of Applied Mathematics and Statistics (IJAMAS)*, Vol. 35, No. 5, 45-66. (SCOPUS)
 24. **Joelianto, E.**, Anura, D.C., Priyanto, M.P., 2013, ANFIS-Hybrid Reference Control for Improving Transient Response of Controlled Systems using PID Controller, *International Journal of Artificial Intelligence (IJAI)*, Vol. 10, No. S13, pp. 88-111. (SCOPUS)
 25. **E. Joelianto**, E. Maryami, A. Budiyono and D. Renaning, 2011, Model Predictive Control for Autonomous Helicopters, *Aircraft Engineering and Aerospace Technology (AEAT): An International Journal*, Vol 83, Issue 6, pp. 375-387. (SCI)
 26. **E. Joelianto** and I. Wiranto, 2011, An Application of Ant Colony Optimization, Kalman Filter and Artificial Neural Network for Multiple Target Tracking Problems, *International Journal of Artificial Intelligence (IJAI)*, Vol. 7, No. A11, 384-400. (SCOPUS)
 27. Pradana, W.A., **Joelianto, E.**, Budiyono, A. and Adiprawita, W., 2011, Robust MIMO H_∞ integral backstepping PID controller for hovering control of unmanned helicopter model, *Journal of Aerospace Engineering (JAE)*, ISSN 1943-5525 (online) / 0893-1321 (print), Vol. 24, No. 4, pp. 454-462. (SCI)
 28. **E. Joelianto** and L. Kadarusman, 2010, Industrial Control Quality Improvement using Statistical Process Control: Tennessee Eastman Process Simulation Case, *Internetworking Indonesia Journal (IJ)*, (ISSN 1942-9703), Vol. 2, No.1, pp. 23-28. (SCOPUS)
 29. **Joelianto, E.** and P.H. Sitanggang, 2009, A Subtractive Clustering Based Fuzzy Hybrid Reference Control Design for Transient Response Improvement of PID Controller, *ITB Journal of Engineering Science*, Vol. 41, No. 2, pp. 167-186. (SCOPUS)
 30. **Joelianto, E.** and D. Williamson, 2009, Transient Response Improvement of Feedback Control Systems using Hybrid Reference Control, *International Journal of Control (IJC)* (ISSN 0020-7179 print/ ISSN 1366-5820 online), Vol. 82, No. 10, pp. 1955-1970., Impact factor: 1.130, Indexed by: ISI Thompson SCI.
 31. **Joelianto, E.**, and Hosana, 2009, Loop-back Action Latency Performance of an Industrial Data Communication Protocol on a PLC Ethernet Network, *Internetworking Indonesia Journal (IJ)*, (ISSN 1942-9703), Vol. I, No.1, pp. 11-18.
 32. **Joelianto, E.**, S. Widiyantoro, and M. Ichsan, 2009, Time Series Estimation on Earthquake Event using ANFIS with Mapping Function, *International Journal of Artificial Intelligence (IJAI)*, (ISSN 0974-0635), Vol. 3, No. A09, pp. 37-63, www.ceser.res.in/ijai.html

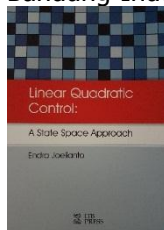
33. **Joelianto, E.** and B. Rahmat, 2008, Adaptive Neuro-Fuzzy Inference System (ANFIS) with Error Back Propagation using Mapping Function, *International Journal of Artificial Intelligence (IJAI)*, (ISSN 0974-0635), Vol. 1, No. A08, pp. 3-22, www.ceser.res.in/ijai.html

National

34. R.K. Adhitya Kusumah, **E. Joelianto**, E. Ekawati, 2009, Model Predictive Control System Design for Turbine Speed of a Hydro Powerplant, *Journal of Automation, Control and Instrumentation*, (ISSN 2085-2517), Vol. 1, No. 2, pp. 29-40.
35. **Joelianto, E.** and A. Dananjaya, 2008, Design and Analysis of Bioprocess Production Automation Systems using Signal Interpreted Petri Nets (SIPN), *GEMATEK Journal* (ISSN 1411-2086). March 2008.
36. **Joelianto, E.** and O. Tansri, 2007, Fuzzy Logic Based Hybrid Reference Control for Improving PID Controller Transient Response Performance, *ITB Journal of Science* (ISSN 0125-9350), Vol. 39A, 1&2, pp.124-145.
37. Muliady, **Joelianto, E.** and L. Triyana, 2002, Simulation of A Quarter Active Suspension Systems of Vehicle using PID Controller, *Electrical and Electronics Journal of Maranatha*, Vol. 1, No. 2, pp. 26-34.
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39. Sartika, E. M., **E. Joelianto** and D. Supriatna, 2001, Robustness Improvement of Vertical Planar Manipulator Control Systems using Switched Gain Sliding Mode, *Electrical and Electronics Journal of Maranatha*, Vol. 1, No. 1, pp. 24-34.
40. **Joelianto, E.**, 2001, Linear Impulsive Systems: Fundamental Properties and Stability, *Journal of Indonesian Mathematical Society*, "Special Issues on Dynamical Systems", Vol. 7, No. 3, pp. 55-83.

Book:

41. **Joelianto, E.**, 2017, *Linear Quadratic Control: A State-Space Approach*, ITB Press, Bandung-Indonesia. ISBN 978-602-5417-42-9.



42. Budiyo, A., B. Riyanto, **E. Joelianto**, (Eds), 2009, *Intelligent Unmanned System: Theory and Application*, Studies on Computational Intelligence, Vol. 192, Springer, Berlin-Germany. ISBN 978-3-642-00263-2



InBook:

43. **Joelianto, E.**, 2011, Robust H^∞ PID Controller Design Via LMI Solution of Dissipative Integral Backstepping with State Feedback Synthesis, in *Robust Control, Theory and Applications*, Andrzej Bartoszewicz (Ed.), ISBN: 978-953-307-229-6, InTech, Croatia.
Available from: <http://www.intechopen.com/articles/show/title/robust-h-pid-controller-design-via-lmi-solution-of-dissipative-integral-backstepping-with-state-feed>
44. **Joelianto, E.**, H.Y. Sutarto, 2009, Controlled Switching Dynamical Systems using Linear Impulsive Differential Equations, in Budiyo, A., B. Riyanto, E. Joelianto, (Eds), 2009, *Intelligent Unmanned Systems: Theory and Applications*, Studies on Computational Intelligence, Vol. 192, Springer, Berlin-Germany, pp. 227-244. ISBN 978-3-642-00263-2.
45. **Joelianto, E.** and D. Williamson, 1998, Optimal Full State Hybrid Reference Control, in *Mathematical Theory of Network Systems*, (A. Beghi, L. Finesso and G. Picci, Eds.), Padova-Italy, Il Poligrafo, pp. 941-944.

Conference Proceeding:

46. T.A. Tamba and **E. Joelianto**, A Linear Programming Approach to Network Utility Maximization, 2016 International Conference on Instrumentation, Control and Automation (ICA), Bandung, Indonesia, August 29-31, 2016.
47. Chairinnas, **E. Joelianto**, G. Gani and N.K. Putri, Robust Control with Linear Matrix Inequality Approach for Ship Steering Problem, 2016 International Conference on Instrumentation, Control and Automation (ICA), Bandung, Indonesia, August 29-31, 2016.
48. A.M. Burohman, A. Widyotriatmo, and **E. Joelianto**, Flocking for Nonholonomic Robots with Obstacle Avoidance, 2016 International Electronics Symposium (IES), Bali-Indonesia, September 2016.
49. M. Luqman Hakim, **Endra Joelianto**, Suprijanto, Estimation of Wave Propagation Distance in Swash Zone with Image Analysis Results of CCTV-Coastal Telemetry, 2015 International Conference on Automation, Cognitive Science, Optics, Micro Electro-Mechanical System, and Information Technology (ICACOMIT 2015), October 29 – 30 , 2015 in Bandung, Indonesia.
50. Mutiara Maulida, Herman Y. Sutarto, **Endra Joelianto** and Agus Samsi, Queue Length Optimization of Vehicles at Road Intersection Using Parabolic Interpolation Method, 2015 International Conference on Automation, Cognitive Science, Optics,

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Talk:

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2. **Keynote Speaker:** FLOCKING AND OBSTACLE AVOIDANCE OF NONHOLONOMIC ROBOTS, International Conference on Industrial Internet of Things (ICIOT) and International Conference on Informatics, Robotics, Network, Control and Systems (IRONCONS), Aston Tropicana Hotel, Bandung, Indonesia, November 23-25, 2016.
3. **Keynote Speaker:** CONTROL SYSTEMS: CONVENTIONAL TO INTELLIGENT, Samosir Island, International Conference on Industrial Internet of Things (ICIOT) and International Conference on Technology, Informatics, Management, Engineering and Environment (TIME-E), Samosir Island, North Sumatera, Indonesia, September 7-9, 2015.
4. **Keynote Speaker:** Intelligent Industrial Automation Systems, in International Conference on Industrial Automation, Information and Communication Technology (IAICT) and Asia Pacific Wireless and Mobility (APWiMob), Grand Inna Kuta Hotel, Bali, 28-30 August 2014.
5. **Speaker:** Green Building Automation Workshop and Exhibition, CITA-ITB, East Campus Center, Bandung, 27 Februari 2012.
6. **Plenary Speaker**, Network Control Systems: Time Delays and Robust Control Issues, 2011 2nd International Conference on Instrumentation, Control and Automation, 15-17 November, Bandung-Indonesia, 2011.
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8. Workshop on Integral Differential Equations (WIDE), 19 July 2011, Department of Mathematics, Bandung Institute of Technology, Bandung.
9. 6th International Conference on Intelligent Unmanned Systems (ICIUS), 3-5 November 2010, Bali-Indonesia
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19. *Advanced Process Control Implementation on PLC/DCS*, Workshop on Plant Performance Optimization, Inna Grand Bali Beach, Bali, 17-18 July 2006.
20. Fieldwise Seminar on Control Engineering, Chulalongkorn University, Montien Hotel, Bangkok-Thailand, March 16-17, 2006.
21. *Two Days Workshop and Exhibition on Industrial Automation, WIA 03*, Hyatt Regency Bandung, 3-4 July 2003.
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