## The Contributors

Ariel James T. Abarquez was born in General Santos City, South Cotabato in June 29, 1997. He received his bachelor's degree in Electronics Engineering (ECE) from Mindanao State University – GSC on June 2018. He was a scholar of Darlene Antonino Foundation. He conducted his On-the-Job Training at the Civil Aviation Authority of the Philippines (CAAP) under the Air Navigation Services (ANS) department. He was a member of the Junior Institute of Electronics Engineers of the Philippines (JIECEP), Organization of Electronics and Electrical Engineering Students and Engineering Students Organization.

Ryann A. Alimuin is a full-time faculty of the Electronics Engineering Department of Technological Institute of the Philippines – Quezon City and is currently taking his Ph.D in Electronics Engineering at the De La Salle University – Manila. He Received his BSECE in TIP-QC (2007) and MEng in TUP-Mla (2012). He is a registered Professional Electronics Engineer and a licensed professional teacher major in Mathematics. He is a consultant of several industries for CCTV systems layout, Fire Detection and Safety, PABX and Structured Cabling. His research works are in the field of industrial and power electronics, power management systems, as well as, intelligence systems for precision agriculture. Currently, he is engaged in research works for smart farming, RF groundwave propagations and face vector analysis for surveillance systems.

Ramtin Aminpour is a PhD candidate in Electronics and Communications Engineering in De La Salle University. He received his Bachelors of Electronics Engineering in Azad University of Tabriz in 1998. He received his Master of Digital Electronics Engineering in Iran University Science and Technology, Tehran, in 2008. His current research works are in the field of artificial intelligence, data mining, and machine learning. He is a member of the Institute of Electrical and Electronics Engineers (IEEE)

**Argel A. Bandala** is an Associate Professor and Research Faculty of the Electronics Engineering Department at De La Salle University. He received his Master of Science in Electronics and Communications Engineering in

year 2012 and Doctor of Philosophy in Electronics and Communications Engineering in year 2015 at De La Salle University. He is the current Vice-Chair, The Institute of Electrical and Electronics Engineers (IEEE) Philippines Section and secretary of Computational Intelligence Society Philippine Chapter. He is also a member of IEEE Robotics and Automation Society. His main works are "Implementation of Varied Particle Container for Smoothed Particle Hydrodynamics-Based Aggregation for Unmanned Aerial Vehicle Quadrotor Swarm" and "Swarming Algorithm for Unmanned Aerial Vehicle (UAV) Quadrotors – Swarm Behavior for Aggregation, Foraging, Formation, and Tracking.

Jomari Joseph A. Barrera is an instructor in the Department of Computer Science and Technology at Visayas State University (VSU), Visca, Baybay City. He finished his Bachelor of Science in Computer Science in 2012 and pursuing his master's degree in Computer Science at Cebu Institute of Technology - University (CIT-U). His field of interests are data structures and algorithms, computer vision and intelligent systems.

Klariz Donna Mae B. Bundal was born in Aborlan Medicare Hospital, Poblacion, Aborlan, Palawan on August 15, 1996. She is the second from the eldest of five children of Adon C. Bundal and Evangeline B. Bundal. She started her preparatory school at Western Philippines University - Basic Elementary Laboratory School, finished next her elementary level at San Juan Elementary School and secondary at Western Philippines University - Agricultural Science High School. She received her degree of Bachelor of Science in Electronics Engineering from Mindanao State University – General Santos City Campus on June 2018. She was a consistent Department of Science and Technology -Science Education Institute (DOST-SEI) scholar under R.A. 7687 Scholarship Program. Spent five years in service as an officer of the Organization of Electrical and Electronics Engineering Student (OEECES – MSU GSC) and member of Junior Institute of Electronics Engineers of the Philippines (JIECEP - SOCCSKSARGEN) and finishes her On the Job Training at Wireless Link Technologies Incorporated, General Santos City branch.

Melvin K. Cabatuan received the B.Sc. degree in Electronics and Communications Engineering (ECE) from Cebu Institute of Technology, Cebu, Philippines, in 2004; MS degree in Engineering from Nara Institute of Science and Technology (NAIST), Nara, Japan, in 2010; and Ph.D. degree in ECE from De La Salle University (DLSU) - Manila in 2016. He joined the Electronics and Communications Engineering department of DLSU in 2011, where he is currently an Assistant Professor. His current research interest involves Machine/Deep Learning, Computer Graphics, and Computer Vision applications to Health Informatics, Education Technology, Game/Graphic Content Development, and Mobile Computing. He is knowledgeable in programming languages - C/Cpp, Java, and MatLab/ Octave scripting. He has more than 5-year experience in computer vision application development with OpenCV library in the mobile framework.

Elmer P. Dadios is a University Fellow and Professor at De La Salle University. He is also the president, Neuronemech, Inc. In 1996, he received his Doctor of Philosophy from Loughborough University. In 1997, he was an Exchange Scientist in Japan Society for the Promotion of Science, Tokyo Institute of Technology. He served as the Director of Engineering Graduate School, De La Salle University in 1998-1999 and Director of School of Engineering, De La Salle University in 2003-2004. He is also the General Chair for HNICEM in 2003, 2005, 2007, 2009, 2011, 2013. His main works are "Fuzzy Logic - Controls, Concepts, Theories and Applications," ISBN: 978-95351-0396-7, 2012. "Fuzzy Logic - Algorithms, Techniques and Implementations," ISBN: 978-953-510393-6, 2012. "Fuzzy Logic - Emerging Technologies and Applications," ISBN: 978-953-51-03370, 2012. His research interests includes; Robotics, Mechatronics, Automation, Intelligent Systems, Neural Networks, Fuzzy Logic, Genetic Algorithms, Evolutionary Computation and IT. He is a Senior Member in The Institute of Electrical and Electronics Engineers (IEEE) and founder and current of Chair of IEEE Computational Intelligence Society, Philippines. He is a member of IEEE Region 10 Executive Committee and founder and President of The Mechatronics and Robotics Society of the Philippines.

Cristina P. Dadula is a professor of Electrical and Electronics Engineering Department of Mindanao State University, General Santos City. She earned her PhD in Electronics and Communications Engineering degree at De La Salle University, Manila, Philippines. She finished her Bachelor of Science in Electronics and Communications Engineering, and Master of Science in Computer Applications at Mindanao State University-Iligan Institute of Technology. Her research interests include design and implementation of artificial intelligent algorithms, digital signal processing, robotics, and control systems.

Reagan L. Galvez received his Bachelor of Science in Electronics and Communications Engineering from Bulacan State University (BSU) in 2010. He received his Master of Science in Electronics and Communications Engineering from De La Salle University (DLSU) in 2016. He is currently an instructor in BSU, while taking his Doctor of Philosophy in Electronics and Communications Engineering at DLSU. His research interests are in the field of artificial intelligence, robotics and machine learning. He is a member of the Institute of Electrical and Electronics Engineers (IEEE), and Institute of Electronics Engineers of the Philippines (IECEP).

Sittie Alyzza M. Garcia was born on Tacloban City, Leyte, Philippines in May 21, 1996. She earned her bachelor's degree in Electronics Engineering from the Mindanao State University – General Santos last June 2018. She was also a scholar of Department of Science and Technology – Science Education Institute under Republic Act No. 10612. A member of Junior Institute of Electronics Engineers of the Philippines, Organization of Electrical and Electronics Engineering Students, and Engineering Students Organization in MSU-GSC.

Arlyn P. Lauron was born in General Santos City, Philippines, in July 06, 1997. She received her bachelor's degree in Electronics Engineering from Mindanao State University-GSC on June 2018. She was also a scholar of Department of Science and Technology – Science Education Institute under Republic Act 7687. She conducted her On-the-Job Training at the Civil Aviation Authority of the Philippines-GSC under the Air Navigation Services department. She was member of Junior Institute of Electronics Engineers of the Philippines and an officer of her college.

Elmer A. Maravillas is a Full Professor, Chair of Computer Science, Coordinator of Doctor in Information Technology Program and Consultant of Research and Development Coordinating Office (RDCO) at Cebu Institute of Technology - University (CIT-U), Cebu City. He received his BS degree in Mechanical Engineering in 1981 from Western Mindanao State University (WMSU), MS Computer Science in 1998 and PhD in Mechanical Engineering in 2006 from De La Salle University-Manila. He worked as Mechanical Project Engineer and Power Plant Engineer of M&S Company Inc. from 1982 to 1984. He served as Department Head of Computer Engineering Department in WMSU from 1984 to 2003 and RDCO in CIT-U from 2006 to 2007. His main works include modeling and simulations, fuzzy logic systems, neural networks, intelligent systems and expert systems.

The contributors 47

Jonah Flor V. Oraño is an instructor in the Department of Computer Science and Technology at Visayas State University (VSU), Visca, Baybay City. She completed her Bachelor of Science in Computer Science degree in 2006 at VSU and MS in Information Technology in 2012 at University of San Carlos (USC), Cebu City. She is currently pursuing Doctor in Information Technology at Cebu Institute of Technology - University (CIT-U). Her research interests are computer vision, machine learning, fuzzy logic systems, and data mining.

## **Guidelines for Contributors**

- 1. The Journal on Computational Innovations and Engineering Applications (JCIEA) aims to promote the development of new and creative ideas on the use of technology in solving problems in the field of computational applications, computational intelligence, electronics and information and communications technology (ICT), manufacturing engineering, energy and environment, robotics, control and automation, and all their related fields. Manuscript submissions should, therefore, be in pursuit of the same goal and within the related fields.
- 2. JCIEA only accepts manuscripts written in English. The responsibility for copyediting manuscripts, as well as obtaining reproduction permissions for the use of graphics and other materials from their references, will fall on the author.
- 3. Authors must also remember to cite all references and ensure that their paper submission has not been previously published or is undergoing peer review for another publication.
- 4. Manuscripts should include a unique title, an abstract, some keywords, an introduction and discussion of the study, a presentation and discussion of results, and a conclusion. Authors may also include an acknowledgement of funding organizations or consultants, if needed.
- 5. Manuscripts may be sent to *jciea.dlsu@gmail.com* or *jciea@dlsu.edu.ph* as either an MS Word file (\*.doc or \*.docx) or a LaTeX file (\*.tex), including its supporting files.
- 6. Manuscripts in either file format should have the following features:
- Single-spaced, two-column format with 1-inch margin on all sides on letter-sized template
- Font to be used is Times New Roman, size 11
- Graphs (\*.eps, \*.svg), tables (\*.csv), and images (\*.jpg, \*.png) should be saved and sent apart from the MS Word file.
- Citations and references should be submitted in IEEE or APA format.
- Submission of these references in a BibTeX format is preferred.
- 7. Manuscript should be eight to twelve (8–12) pages long, including all figures, tables, and references. Manuscripts exceeding the 12-page limit will require permissions from the editors.
- 8. Authors must include their full names and affiliations in the manuscript. They may include a 150- to 200-word biography to be included in the back portion of the journal.