

Towards a Dynamic Section in ICTs

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Abstract: – *This is a brief report about the activities of Vietnam Section in 2014 – the 2nd year from the establishment of the Section. Although the number of the members are limited, the Section has many activities to promote the research and development of the community in the field of electronics, information and communications. Below are some significant events of the Section in 2014.*

ICT related R&D environment

Computer Science

- Image Processing & Recognition
- Genomic Map Processing
- Natural Languages Processing (Vietnamese)
- Field Monitoring (vegetation fires, air pollution in Vietnam, land slice)

Communications

- Software Defined Radio
- 5G/Femto-Cell Networks
- Antenna Design and Optimization
- Beamforming Techniques

Electronics and Computer Engineering

- VLSI design for multimedia applications
- Low power LSI design for IoT devices
- Mixed-signal circuits and systems design, RF devices
- Organic, flexible, and printable electronics.

Organization and Role Assignment

- Office: VNU Uni. of Engineering and Technology (VNU-UET)
- Email: ieicevn@vnu.edu.vn
- Management: VNU-UET's Dept. of S&T, International Relations



- Chairman: Prof. Ngoc Binh NGUYEN, VNU-IFI (nnbinh@vnu.edu.vn)
- Vice-Chairman: Prof. Xuan-Tu TRAN, VNU-UET (tutx@vnu.edu.vn)
- Secretariat: Prof. Trang HOANG, HCMUT (hoangtrang@hcmut.edu.vn)
- Website: <http://www.uet.vnu.edu.vn/ieicevn/>

Academic activities of the Section

Organization of International Scientific Events

- ICDV 2014: the 5th Int'l Conf. on Integrated Circuits, Design, and Verification (14-15 Nov. 2014) with 30 accepted papers, 1 keynote, 9 invited papers, around 100 participants.
- @VNU-UET, Hanoi, Vietnam.
- With ICD, VLD committees.
- VJMW 2014: Vietnam-Japan Microwave (24-25 Nov. 2014) with 2 tutorials, 2 plenary talks, 10 oral presentations, around 60 participants.
- @VNU-UET, Hanoi, Vietnam.
- VJSAP 2015: The 2015 Vietnam-Japan International Symposium on Antennas and Propagation (7-9 Jan. 2015) with 21 oral presentations, around 55 participants.
- @PTIT, HoChiMinh city, Vietnam.
- Other events: Seminars, Lectures, technical support for other conferences such as KSE 2014, ATC 2014, RIVF 2015.



Strategy to extend the membership

- Further introduction of the IEICE to institutions and researchers.
- Benefit of the IEICE members, IEICE Trans. Publications...
- Collaboration with the Radio-Electronics Association of Vietnam (REV)

Plan for 2015

- Events: ICDV 2015, VJMW 2015, VJSAP 2015...
- Lectures on LSI design, communications, IoTs, Big Data...
- Participate the LSI contest in Okinawa.
- Preferable topics to collaborate with regional Sections in Japan: LSI design, EDAs, Photonic Network, Microwave, Embedded Systems, Multilingual Processing and NLP...