

Resume of Dr. Michel Ouendeno

Dr. Michel Ouendeno is an Assistant Professor of Electronic Engineering Technology at West Virginia University Technology (WVU-Tech) in Beckley, WV. He has more than 16 years of relevant experience as an accomplished Embedded Engineer, along with an excellent academic, professional, and research background.

Education

Ph.D. in Electrical Engineering, Florida Institute of Technology, Dec 2007, Melbourne, FL
Master of Science in Electrical Engineering, Florida Institute of Technology, Dec 2003, Melbourne, FL
Bachelor of Science Electrical Engineering, University of Central Florida, August 2000, Orlando, FL

Academic Experiences

Aug 2016 – Present, WVU-Tech, Beckley – WV
Assistant Professor in Electronic Engineering Technology

Teaching most the courses in the program.

Dec 2014-August 2016, Garrett College, McHenry – MD
Program Manager and Assistant Professor of Electrical Engineering - Associate of Science

Taught most the courses in the program

In addition to teaching, developed a new certificate program, Electro-Mechanical Technology, which was approved by Maryland Higher Education Commission, MHEC, on June 2016. Applied for FY 2016 Reserve Fund for Career and Technology Education (CTE) Grants, offers by DIVISION OF CAREER TECHNOLOGY AND ADULT LEARNING MARYLAND STATE DEPARTMENT OF EDUCATION; and received \$20,000.

Jan 2009-Jun 2014, Broward College – North Campus, Coconut Creek – FL
Assistant Professor in Engineering Technology & Computer Science

In addition to teaching, worked as Program Manager for Solar Photovoltaic (PV) Systems. Solar PV Systems Program delivers an introduction to background, essential theory, principles and future of distributive energy technology. Also, the program covers the design and installation of Photovoltaic Systems.

Affiliation

A member of the following professional organizations: Institute of Electrical and Electronics Engineers (IEEE): Power Energy and American Society for Engineering Education (ASEE).

Work Experiences

Dec 2007-Dec 2010, Technisource a Subsidiary of Randstad Technologies, Fort Lauderdale-FL
Embedded Software Engineer

Performed contract work for the following organizations: GE Aviation, Hamilton & Sundstrand, Honeywell, and Belcan Engineering.

Team member for the design, testing, review and analysis by providing an assessment of the accuracy, completeness, and verifiability of the software requirements, software architecture, and source codes, based on the DO-178B guidance for airborne software and DO-254 guidance for design assurance of airborne electronic hardware

Sept 2000-Dec 2003, Rockwell & Collins, Melbourne-FL
Electrical Engineer

Team member for the design of the commercial systems ASIC devices: Defined and developed ASIC devices for avionics applications, worked with ASIC validation team for bring-up and testing of new silicon, implementation was done with VHDL code; code was designed to run on both Windows and UNIX platforms. Tested Distance Measuring Equipment (DME), a system that provides distance information from a ground station to an aircraft. Also, developed and supported window pc based test for Environmental-stress screening, ESS, using Visual Basic and LabVIEW software.

Research Interests

Ouendeno research interests mainly lie in the broad areas of Information Processing and Pattern Recognition. His professional research work has been presented and published in several conference and journal publications, including the International Journal of Signal and Imaging Systems Engineering. A detailed list of topics is:

Information Processing

- Digital Signal Processing
- Digital Image Processing

The application of his research include but not least, medical imaging: fusing X-ray computed tomography (CT) and magnetic resonance imaging (MRI), remote sensing: using various parts of the electro-magnetic spectrum, military and law enforcement: detecting concealed weapon, manufacturing: monitoring and diagnostics of machinery, etc....

Pattern Recognition

- Artificial Neural Networks
- Support Vector Machines
- Pattern Recognition & Detection

Publications

Journal

M. Ouendeno and S.P. Kozaitis, "Using denoising to improve image fusion performance", International Journal of Signal and Imaging Systems Engineering, Vol. 1, No.2 pp. 127 – 134, 2008

Conference

1. M. Ouendeno and S.P. Kozaitis, "Wavelet-based fusion approach using unique reconstruction approach", in Independent Component Analyses, Wavelets, Unsupervised Nano-Biometric Sensors and Neural Networks V, paper 8, Proc. SPIE 6576, Orlando (Kissimmee), FL, April, 2007
2. M. Ouendeno and S.P. Kozaitis, "Signal-to-noise ratio for cross-sensor fusion approach", in Multisensor, Multisource Information Fusion: Architectures, Algorithms, and Applications, paper 6, Proc. SPIE 6571, Orlando (Kissimmee), FL, April, 2007
3. S.P. Kozaitis and M. Ouendeno (USA), "Fusion of Remotely-Sensed Imagery using a Unique Wavelet-based Reconstruction Method", IASTED on Signal and Image Processing, Honolulu, HI, August 14-16, 2006.
4. M. Ouendeno and S. P. Kozaitis, "Image fusion for improved perception," in Signal Processing, Sensor Fusion, and Target Recognition XV, Proc. SPIE 6235, Orlando (Kissimmee), FL, April, 2006
5. M. Ouendeno and S. P. Kozaitis, "Wavelet-based feature extraction method for inspection using cross-sensor image data", in Wavelet Applications in Industrial Processing IV, Proc. SPIE 6383, Boston, MA, October, 2006
6. S.P. Kozaitis and M. Ouendeno, "Cross-sensor fusion of imagery for improved information extraction", in Independent Component Analyses, Wavelets, Unsupervised Smart Sensors, and Neural Networks IV, Proc. SPIE 6247, Orlando (Kissimmee), FL, April, 2006
7. M. Ouendeno and S.P. Kozaitis, "Disparity determination using multilevel products", in Independent Component Analyses, Wavelets, Unsupervised Smart Sensors, and Neural Networks IV, Proc. SPIE 5818, Orlando (Kissimmee), FL, April, 2005, *invited paper*