

2017 IEEE 24th International Conference on Mechatronics and Machine Vision in Practice (M2VIP2017), Auckland, New Zealand, 21-23 November 2017



www.m2vip-conference.org

Plenary Speakers

[Professor Alexander Verl](#)
[Professor Chris Zhang](#)
[Professor Olaf Diegel](#)

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CALL FOR PAPERS

M2VIP-Conference has got into the third decade since its birth in 1994. Mechatronics is regarded as the fusion of mechanical, electrical and computer engineering for the design and development of mechatronic products while machine vision brings a sense of intelligence. With the advent of new functional materials, smart actuators, smart sensors, embedded computers and 3D printing technologies, as well as the latest advance in machine vision, intelligence, machine learning and computational modeling, a lot of more intelligent, powerful, miniaturized or user-friendly devices, systems and robots are emerging that meet the needs of modern day living and the challenges with Industry 4.0. At the core of these emerging smart products is essentially novel Mechatronic ways in coordinating the sensors that detect interactions with the surroundings and measure internal states, and commanding the actuators to achieve the motion functionalities, delivering the machine intelligence and manufacturing in 3D printing technologies. Research in Mechatronics and Machine Vision in Practice (M2VIP) is always active worldwide and M2VIP-Conference provides a forum for researchers, academics and students to exchange and present their latest results and best practices.

Topics

The topics covered in the conference will include, but not be limited to,

- Smart actuators, smart materials, and drive technologies
- Mechatronics in agriculture, food, and horticulture
- Manipulative, mobile, walking, flying, humanoid and biomimetic robots
- Artificial and computational intelligence
- Robotic rehabilitation systems
- Wearable assistive devices
- Surgical robots and mechatronics in medicine
- Intelligent aids for the elderly and disabled
- Real-time programming and intelligence
- Signal processing and embedded systems
- Intelligent control and automation
- Machine vision, image processing and pattern recognition
- Sensors, sensor fusion & sensor networks
- Remote assistance, VR and AR
- 3D printing technologies and additive manufacturing
- Manufacturing automation, control and optimization
- Autonomous cars and electric car technologies
- Localization/SLAM for mechatronic and robotic systems

Publication

All the papers presented at the conference will be submitted to IEEE Xplore for consideration of publication.

Deadlines

Paper Submission: ~~1 August 2017~~ **15 August 2017**

Notification of Acceptance: **15 September 2017**

Submission of Final Manuscripts: 1 October 2017

Conference Inquiry

Professor Tom Moir for paper submission, email: tom.moir@aut.ac.nz

Professor Johan Potgieter for registration, email: admin@m2vip-conference.org

Organised by: The University of Auckland, AUT University and Massey University
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