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Minh Nguyen · Wei Qi Yan ·
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Geometry and Vision

First International Symposium, ISGV 2021
Auckland, New Zealand, January 28–29, 2021
Revised Selected Papers

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Minh Nguyen 
Auckland University of Technology
Auckland, New Zealand

Wei Qi Yan 
Auckland University of Technology
Auckland, New Zealand

Harvey Ho 
Auckland Bioengineering House
Auckland, New Zealand

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Preface

The International Symposium on Geometry and Vision (ISGV 2021) took place on 28 and 29 January 2021 in Auckland, New Zealand. This was an international conference that brought together academics and researchers working in the areas of digital geometry, graphics, image and video technologies, computer vision, and multimedia technologies. ISVG 2021 was brought to you by the Centre for Robotics & Vision (CeRV), Auckland University of Technology (AUT), in collaboration with the University of Auckland. The best papers of this international symposium were awarded the Reinhard Klette Award to memorialize Professor Reinhard Klette, the founding Director of CeRV. Professor Reinhard Klette (1950–2020) was a Fellow of the Royal Society of New Zealand (RSNZ), a Helmholtz International Fellow (Germany), a Friendship Ambassador of Shandong province (Shandong, China), and a winner of the Quancheng Friendship Award (Jinan, China).

We invited submissions aiming either at highlighting relationships between adjacent topics within the listed areas or contributing to a particular topic within one area which is of fairly general interest. In the context of the listed areas, the submissions addressed the basics or applications under a geometric viewpoint in:

- Computer Vision,
- Robot Vision,
- Pattern Recognition and Machine Learning,
- Signal Processing,
- Multimedia Processing and Interaction,
- Medical Image Processing,
- Stereovision,
- HCI, AR, VR,
- Autonomous Vehicles,
- Others.

The conference was planned to take place at the end of 2020 (with the acronym of ISGV 2020). However, due to COVID-19 lockdowns the conference was put back for two months, to 28 and 29 January 2021 (with the acronym of ISGV 2021). This conference used double-blind review, which means both that the authors were concealed from the reviewers, and vice versa, throughout the review process. By the end, we had 50 full papers submitted to the EasyChair conference system. We received 136 reviews in total. The average number of reviews per paper was 2.72; on average, each reviewer was assigned approx. three papers to assess. After the double-blind reviewing process, 29 papers were accepted for presentation at the conference. This resulted in a 58% acceptance rate.

We, therefore, had 29 oral presentations, grouped in four sessions during the two days of the conference. From the selected papers, we chose three papers for the best paper awards (Reinhard Klette awards).

Additionally, we successfully invited three renowned keynote speakers:

- Professor Nikola Kasabov (Fellow IEEE, Fellow RSNZ, Fellow INNS College of Fellows) Professor at SECMS and Founding Director KEDRI, Auckland University of Technology, Auckland, New Zealand.
- Professor Richard Green (IEEE) Professor of Computer Science, Department of Computer Science and Software Engineering, College of Engineering, University of Canterbury, New Zealand.
- Professor Dacheng Tao (ARC Laureate Fellow, FACM, FIEEE, FAA) Professor of Computer Science, School of Computer Science, The University of Sydney, Australia.

February 2021

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