Message from the Program Chair

On behalf of the Executive Committee I am very pleased to welcome you to the 46th International Symposium on Multiple-Valued Logic in Sapporo.

From the 67 submissions, we accepted 45 papers authored by researchers from 19 countries. We have compiled a program of twelve sessions covering cutting-edge research in a variety of fields in multiple-valued logic. These include algebra, clone theory, logic design, quantum computing and reversible logic, circuits as well as applications. In addition to this, Prof. Yutaka Hata and Noboru Takagi have organized a special session focused on intelligent medical and welfare engineering.

As well as the excellent contributed papers, we will enjoy presentations by four invited speakers. These include “application-oriented” emerging technologies from several perspectives. Prof. Takahiro Yamanoi (Hokkai-Gakuen University, Japan) will give a talk on “Elucidation of Brain Activities by Electroencephalograms and its Application to Brain Computer Interface”. Prof. Miki Haseyama (Hokkaido University, Japan) will speak on “Realization of Associative Image Search: Development of Image Retrieval Platform for Enhancing Serendipity”. The third invited speaker, Prof. Shin-ichi Minato (Hokkaido University, Japan) will present on “Power of Enumeration — BDD/ZDD-Based Techniques for Discrete Structure Manipulation”. The final talk will be given by Prof. Wai Tung Ng (University of Toronto, Canada) titled “SPRUCE, an Embedded Compact Stack Machine for IGBT Power Modules”. These presentations will outline important recent developments in the field and, we hope, also inspire further interdisciplinary research in our MVL community.

I would like to offer my thanks to the international technical program committee: Tomoyuki Araki, Andrei Bulatov, Miguel Couceiro, Rolf Drechsler, Gerhard Dueck, Elena Dubrova, Vincent Gaudet, Takashi Hirayama, Naofumi Homma, Mayuka F. Kawaguchi, Martin Lukac, Hajime Machida, Felip Manyá, Michael Miller, Shinobu Nagayama, Masanori Natsui, Jovanka Pantović, Tsutomu Sasao, Dan Simovici, Koichi Tanno, Mitch Thornton, Takao Waho, Tamás Waldhauser, and Robert Wille. I also thank the many volunteer reviewers, too numerous to mention individually.

Finally, on behalf of all attendees, we wish thank Prof. Takahiro Hanyu, Symposium Chair, and all members of the Executive Committee for their extensive efforts in organizing this year’s ISMVL. We also thank the staff of the Conference Publishing Services (CPS) of the IEEE Computer Society for their efforts towards the production of these proceedings.

I hope all participants enjoy this symposium and look forward to the fruitful discussions I’m sure it will provoke.

Yasushi Yuminaka
Program Chair