## Preface

The workshop "Singularities in Generic Geometry and Applications –Kobe-Kyoto 2015 (Valencia IV)—" was the fourth in a sequence of biennial workshops, the first being at Valencia, Spain in 2009, the second at Bedlewo, Poland, in 2011 and the third at Edinburgh, Scotland in 2013. The entire sequence is a tribute to the inspirational work of Carmen Romero Fuster (Valencia), and the fifth in the sequence is scheduled to take place in Mexico in 2017.

The fourth workshop was held at Kobe University in Kobe, Japan from 3 to 6 June 2015 and the Research Institute of Mathematical Science (RIMS) in Kyoto, Japan from 8 to 10 June 2015. The workshop had 81 mathematicians as participants, with 23 participants from abroad coming from nine different countries (Brazil, China, France, Italy, Mexico, Poland, Russia, Spain and the USA), and there were 33 talks and 16 poster presentations. The program focused on applications of singularity theory to differential geometry and differential topology. The scientific committee consisted of Professors A. Davydov (Moscow-Vladimir), T. Fukui (Saitama), P. Giblin (Liverpool), T. Nishimura (Yokohama), T. Ohmoto (Sapporo), M. C. Romero Fuster (Valencia), O. Saeki (Fukuoka), M. A. Soares Ruas (Saõ Carlos), F. Sánchez Bringas (Mexico city) and F. Tari (Saõ Carlos).

Eighteen of the speakers now present their works in written forms, as research articles, surveys or expositions in this volume. All papers here were strictly peer-reviewed and selected following the standards of mathematical research journals. We would like to express our gratitude to the authors for their contributions, and to the referees for contributing to the selection process.

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All papers in this volume have been referred and are in final form. No version of any of them will be submitted for publication elsewhere.