Preface

Network of the Future Conference deals with important paradigms for the post-IP generation: new architectures, knowledge and piloting planes, network virtualization, green technologies, sensor networks, mobile and wireless networks, and strong security. In these proceedings, these seven paradigms are described in different sections. From the material proposed in this book, it is possible to deduce what could be the future Internet or post-IP generation.

The papers presented in this volume were peer-reviewed by an international Program Committee, resulting in an acceptance rate of approximately 30%.

The first section introduces new architectures either based on ethernet or coming from some theoretical studies. Then, some "green technologies" are presented in detail: green network planning, green communications, and the smart grid. Sensor networks are at the basis of the next session with the Internet sensor grid and efficient transmission schemes. The proceedings also introduced high-security schemes for future fixed or mobile networks. Trusted networks and strong authentication methods are mainly described.

Network virtualization can provide a powerful way to run multiple networks, each customized to a specific purpose, at the same time over a shared substrate. This paradigm permits us to know what the transition will be toward IP or non-IP new architectures.

Performance and wireless networks are also analyzed in this book through different examples.

Thank you to the authors of the papers, the members of the Program Committee, and the reviewers. Without their dedication and active involvement, the conference would not have achieved its current high quality.

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