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IFIP – The International Federation for Information Processing

IFIP was founded in 1960 under the auspices of UNESCO, following the first World Computer Congress held in Paris the previous year. A federation for societies working in information processing, IFIP’s aim is two-fold: to support information processing in the countries of its members and to encourage technology transfer to developing nations. As its mission statement clearly states:

*IFIP is the global non-profit federation of societies of ICT professionals that aims at achieving a worldwide professional and socially responsible development and application of information and communication technologies.*

IFIP is a non-profit-making organization, run almost solely by 2500 volunteers. It operates through a number of technical committees and working groups, which organize events and publications. IFIP’s events range from large international open conferences to working conferences and local seminars.

The flagship event is the IFIP World Computer Congress, at which both invited and contributed papers are presented. Contributed papers are rigorously refereed and the rejection rate is high.

As with the Congress, participation in the open conferences is open to all and papers may be invited or submitted. Again, submitted papers are stringently refereed.

The working conferences are structured differently. They are usually run by a working group and attendance is generally smaller and occasionally by invitation only. Their purpose is to create an atmosphere conducive to innovation and development. Refereeing is also rigorous and papers are subjected to extensive group discussion.

Publications arising from IFIP events vary. The papers presented at the IFIP World Computer Congress and at open conferences are published as conference proceedings, while the results of the working conferences are often published as collections of selected and edited papers.

IFIP distinguishes three types of institutional membership: Country Representative Members, Members at Large, and Associate Members. The type of organization that can apply for membership is a wide variety and includes national or international societies of individual computer scientists/ICT professionals, associations or federations of such societies, government institutions/government related organizations, national or international research institutes or consortia, universities, academies of sciences, companies, national or international associations or federations of companies.

More information about this series at http://www.springer.com/series/6102
This volume contains the papers presented at the 10th World Conference on Information Security Education (WISE10) held during May 29–31, 2017 in Rome, in conjunction with the 32nd International Conference on ICT Systems Security and Privacy Protection (IFIP SEC 2017). WISE10 was organized by the IFIP Working Group 11.8, which is an international group of people from academia, government, and private organizations who volunteer their time and effort to increase knowledge in the very broad field of information security through education. WG11.8 has worked to increase information assurance education and awareness for almost two decades. This year, WG11.8 organized the 10th conference of a successful series, which is an important milestone for the working group. The theme for this year’s WISE conference was “Information Security Education for a Global Digital Society.”

This year’s conference received 32 submissions from around the world. Each submission was reviewed by at least three Program Committee members. The committee decided to accept 14 full papers and one workshop proposal. The acceptance rate for the papers is thus 45%.

This conference took place thanks to the support and commitment of many individuals. First, we would like to thank all TC-11 members for continually giving us the opportunity to serve the working group and organize the WISE conferences. Our sincere appreciation also goes to the members of the Program Committee, to the external reviewers, and to the authors who trusted us with their intellectual work. We would like to thank our colleague Diana Burley for proposing and co-organizing the workshop on “Workshop on the Joint Task Force Cybersecurity Curricular Guidelines.” We are grateful for the local organizers and hosts, especially the WISE10 Logistics Chair, Erik Moore. Finally, we would like to thank the IFIP SEC 2017 General Chairs, Sara Foresti and Luigi V. Mancini, for enabling this continuous collaboration with the IFIP SEC conference series.

As for the preparation of this volume, we sincerely thank Erika Siebert-Cole and our publisher Springer for their assistance. Moreover, we acknowledge the EasyChair conference management system, which was used both for managing the conference and creating this volume.

March 2017

Matt Bishop
Lynn Futcher
Natalia Miloslavskaya
Marianthi Theocharidou
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Workshop on the Joint Task Force
Cybersecurity Curricular Guidelines
(Workshop Proposal)

Matt Bishop\textsuperscript{1}, Diana Burley\textsuperscript{2}, and Lynn Futcher\textsuperscript{3}

\textsuperscript{1} University of California at Davis, Davis, USA
mabishop@ucdavis.edu
\textsuperscript{2} The George Washington University, Washington, D.C., USA
dburley@gwu.edu
\textsuperscript{3} Nelson Mandela Metropolitan University, Port Elizabeth, South Africa
Lynn.Futcher@nmmu.ac.za

Abstract. The goal of the Joint Task Force on Cybersecurity Education is to
develop comprehensive curricular guidance in cybersecurity that will support
future program development and associated educational efforts. This workshop
is to present the current draft of the proposed guidelines and obtain feedback that
can be incorporated into the next version.

In 2016, the professional computing societies ACM, IEEE-CS, AIS SIGSEC, and
IFIP WG 11.8 assembled a Joint Task Force on Cybersecurity Education.\textsuperscript{1} The goal of
this working group is to develop cybersecurity curricular guidelines for programs that
emphasize different areas of specialization. The intent is that these guidelines can drive
curricula, with each curriculum being tailored for the specific discipline and goals while
ensuring that professionals (or prospective professionals) obtain the knowledge and
skills they need.

The model consists of four parts: knowledge areas, cross-cutting concepts that span,
or underlie, the knowledge areas; disciplinary lenses that provide the views of the
knowledge areas and cross-cutting concepts based upon the discipline; and application
areas, which help define the coverage for each knowledge areas.

The Joint Task Force is seeking community feedback to improve the current draft
curricular guidelines. Two workshops have been held; the third, and the first interna-
tional one, is this workshop. As other nations and communities have differing needs
and educational environments, comments from those communities will be invaluable in
making the guidelines as useful to all as possible.

Thus, this workshop will explore the current guidelines, their goals, the organiza-
tion, and how the guidelines might be used. We will invite the audience to provide
insights, identify problems their institutions might have in using the guidelines, and
propose changes and additions that will improve the guidelines.

\textsuperscript{1} http://www.csec2017.org.
Acknowledgements. We gratefully acknowledge the work of the Joint Task Force on Cybersecurity Education in developing these guidelines, and the valuable contributions of participants in our 15 community engagement efforts. This workshop is based upon work supported by the National Science Foundation under Grant No. DGE-1623104, the National Security Agency’s CNAP Curriculum Development effort (RFI-2017-00022), the Education Board of the ACM, and Intel Corporation. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation, the National Security Agency, the ACM Education Board, or Intel Corporation.
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