Grand Challenges in Technology-Enhanced Learning:
A Dialog Started in Villard de Lans ........................................... 1
Julia Eberle, Kristine Lund, Pierre Tchounikine and Frank Fischer

Grand Challenge Problem 1: People Centered Smart “Cities”
Through Smart City Learning .................................................... 7
Carlo Giovannella, Alke Martens and Imran Zualkerman

Grand Challenge Problem 2: Adaptive Awareness for
Social Regulation of Emotions in Online Collaborative
Learning Environments .............................................................. 13
Guillaume Chanel, Denis Lalanne, Elise Lavoué, Kristine Lund,
Gaëlle Molinari, Fabien Ringeval and Armin Weinberger

Grand Challenge Problem 3: Empowering Science Teachers Using
Technology-Enhanced Scaffolding to Improve Inquiry Learning ........ 17
Margus Pedaste, Ard Lazonder, Annelies Raes, Claire Wajeman,
Emily Moore and Isabelle Girault

Grand Challenge Problem 4: Supporting Teacher Decision-Making
Through Appropriate Feedback ................................................... 21
Sebastien Cuendet and Roland Tormey

Grand Challenge Problem 5: Bringing the Information
and Communication Society to Vocational Education and Training .... 25
Daniel Schneider and Jessica Dehler Zufferey

Grand Challenge Problem 6: Technology to Bridge the Gap
Between Learning Contexts in Vocational Training ........................ 29
Jessica Dehler Zufferey and Daniel Schneider
Grand Challenge Problem 7: Towards Adaptive and Adaptable Learning in Massive Online Courses .............................. 33
Felix Mödritscher, Vanda Luengo, Effie Lai-Chong Law, H. Ulrich Hoppe and Karsten Stegmann

Grand Challenge Problem 8: Interactive Learning Analytics: From Accountability to ‘Opportunity Management’ in a Multi-actor Perspective ................................................................. 39
Felix Mödritscher, Vanda Luengo, Effie Lai-Chong Law, H. Ulrich Hoppe and Karsten Stegmann

Helen Beetham, Carlo Perrotta and Debbie Holley

Grand Challenge Problem 10: TELEARC an Agile and Productive Networking of TEL Small and Medium Sized Research Labs ................. 49
Lone Dirckinck-Holmfeld, Nicolas Balacheff, Rosa Maria Bottino, Daniel Burgos, Angelique Dimitracopoulou, Sten Ludvigsen and Alain Mille

Grand Challenge Problem 11: Empowering Teachers with Student Data .............................................................. 55
Barbara Wasson, Cecilie Hanson and Yishay Mor

Grand Challenge Problem 12: Assessing Student Learning Through Continuous Collection and Interpretation of Temporal Performance Data ................................................................. 59
Inge Molenaar and Alyssa Wise

A Challenge to Enhance the System of Education—a Comment from a Researcher Perspective ........................................... 63
Mike Sharples

The Grand Challenge of Diversity—A Comment from a Researcher Perspective ................................................................. 71
Nicolas Balacheff

A Comment from a Practitioner Perspective .................................................. 77
Peter Schwertschlagert

Building the Future of the Digital Age School—A Comment from a Practitioner Perspective ........................................... 83
Mikko Ripatti

What Do Policy Makers Learn from Foresights Around ICT-Enabled Learning—A Comment from a Policy Maker Perspective ..................... 91
Lieve van den Brande
Grand Challenge Problems in Technology-Enhanced Learning II: MOOCs and Beyond
Perspectives for Research, Practice, and Policy Making
Developed at the Alpine Rendez-Vous in Villard-de-Lans
Eberle, J.; Lund, K.; Tchounikine, P.; Fischer, F. (Eds.)
2016, VI, 104 p. 2 illus., Softcover
ISBN: 978-3-319-12561-9