Contact Information	Gärtnerstr. 1 10245 Berlin, Germany		Office: +49 30 2093 2630 Mobile: +49 157 714 65 533 E-mail: thomas.surowiec@gmail.com
Personal Information	Date of Birth: Place of Birth: Marital Status: Children: Name at Birth: Citizenship:	July 9, 1982 Passaic, New Jersey, V Not Married No Children : Surowiec USA	USA
Professional Experience	April 2014-	Assistant Professor (Ja in Nonsmooth Optimizati Institut für Mathematik Humboldt-Universität zu	uniorprofessur) on and Set-Valued Analysis Berlin
	April 2009- April 2014	<b>Research Associate</b> (w Institut für Mathematik Humboldt-Universität zu	iss. Mitarbeiter) Berlin
	August 2006- April 2009	Research Assistant Institut für Mathematik Humboldt-Universität zu	Berlin
	August 2004- May 2006	<b>Teaching Assistant</b> Department of Mathemat Stevens Institute of Techn Hoboken, NJ USA	cical Sciences nology
	May 2005- August 2005	<b>Operations Consultan</b> Aarhus United USA Port Newark, NJ USA	t
	May 2001- August 2001	Lab Assistant The Light and Life Labor Hoboken, NJ USA	ratory
Education	January 2010	<b>Ph.D.</b> (doctor rerum nat Mathematics Institut für Mathematik Humboldt-Universität zu	turalium) Berlin
	May 2006	Master of Science. Stochastic Systems Analysis and Optimization Department of Mathematical Sciences Stevens Institute of Technology	
	May 2004	<b>Bachelor of Science</b> <i>Mathematical Sciences</i> Department of Mathemat Stevens Institute of Tech	tical Sciences nology
Research Interests	Optimal Control of Variational Inequalities with Differential Operators Nonsmooth Optimization and Set-Valued Analysis PDE-Constrained Optimization and Equilibrium Problems Applications in Engineering, Finance, and Economics		

# Prof. Dr. Thomas M. Surowiec

#### Presentations Invited (Conferences)

On risk-averse PDE-constrained optimization using convex risk measures inspired by conditional value-at-risk SIAM Conference on Computational Science and Engineering, Salt Lake City, 04.2015

Nonsmooth analysis and implicit programming approaches for optimal control problems governed by variational inequalities of the first and second kind, Bilevel Optimal Control, Heidelberg, 10.2014

On the Optimal Control of a Class of Variational Inequalities of the Second Kind SIAM Conference on Optimization, San Diego, 05.2014

Bundle-Free Implicit Programming Approaches for the Optimal Control of Variational Inequalities of the First and Second Kind, 6th International Conference on Complementarity Problems, Berlin, 08.2014

On a class of generalized Nash equilibrium problems in Banach space with applications to multiobjective PDE-constrained optimization, ICCOPT 2013, Lisbon, 08.2013

A PDE-Constrained Generalized Nash Equilibrium Problem with Pointwise Control and State Constraints, ISMP 2012, Berlin, 08.2012

A Bundle-Free Implicit Programming Approach for the Optimal Control of Variational Inequalities, Free Boundary Problems (FBP) 2012, Chiemsee, 06.2012

On the Derivation of Optimality Conditions for Elliptic MPECs via Variational Analysis IFIP TC 7, Berlin, 09.2011

A Bundle-Free Implicit Programming Approach for a Class of Elliptic MPECs, OR 2011, Zürich, 08.2011

On the Derivation of Optimality Conditions for Elliptic MPECs via Variational Analysis, SIOPT 2011, Darmstadt, 05.2011

Strong Stationarity Conditions for Elliptic Mathematical Programs with Equilibrium Constraints, PARAOPT X, Karlsruhe, 09.2010

Analysis of M-stationary Points to an Electricity Spot Market EPEC, ISMP 2009, Chicago, 08.2009

### Invited (Colloquia)

Path-Following Methods for Generalized Nash Equilibrium Problem in Banach Spaces, Universität der Bundeswehr München, Germany, 12.2014

A PDE-Constrained Generalized Nash Equilibrium Problem: Analysis and Numerics, Mathematical Sciences Seminar, Stevens Institute of Technology, Hoboken, 09.2012 A Bundle-Free Implicit Programming Approach for a Class of Elliptic MPECs, Seminar des Fachgebiets Optimierung bei Partiellen Differentialgleichungen, Technische Universität Berlin, 01.2011

Mathematical Programs with Equilibrium Constraints in Function Spaces, Optimization and Applications Seminar, ETH Zürich and University of Zürich,05.2011

## Contributed

Some Structural Properties and Stationarity of Solutions to a Stochastic Spot Market EPEC, Conference on Optimization and Practices in Industry 2008, Paris, France 11.2008

Analysis of M-stationary Points and Solutions to an SEPEC Modeling Oligopolistic Competition, CARIPLO Workshop on Numerical Linear and Nonlinear Stochastic Programming, Edinburgh, Scotland, UK 09.2008

On the Coderivative of the Normal Cone Mapping to Non-Polyhedral Sets, ECMI 2008, London, UK 07.2008

ConferenceCurrently planning (with G. Wachsmuth) a two-part minisymposium on OptimizationOrganizationand Control of Nonsmooth and Complementarity-Based Systems: Theory and Numerics<br/>at the IFIP TC7 Conference 2015 in Sophia-Antipolis.

Co-organized (with M. Hintermüller) a two-part minisymposium titled Variational Inequalities and MPECs in Function Space: Analysis, Numerics, and Applications at the IFIP TC7 Conference 2011 in Berlin.

Co-organized (with M. Hintermüller) a three-part minisymposium titled (Quasi) - Variational Inequalities, Complementarity Problems and MPECs at the SIAM Conference on Optimization 2011 in Darmstadt.

Co-organized (with M. Hintermüller) the International Conference on Complementarity Problems at HU Berlin August, 2014.

Large-ScaleCo-Principal Investigator (with M. Hintermüller, A. Mielke, M. Thomas) for the Ein-<br/>stein Center for Mathematics Project OT1 "Mathematical Modeling, Analysis, and<br/>Optimization of Strained Germanium-Microbridges"

Member of DFG Research Center MATHEON Project C28 "Optimal Control of Phase Separation Phenomena" (05.2009-2013)

Member of DFG Priority Program SPP 1253 "Optimization with Partial Differential Equations" within the project "Elliptic Mathematical Programs with Equilibrium Constraints (MPECs) in Function Space: Optimality Conditions and Numerical Realization" (05.2009-)

Former Doctoral Candidate in DFG Graduiertenkolleg (Research Training Group) 1128 "Analysis, Numerics and Optimization of Multiphase Problems" (08.2006-08.2009)

TeachingHumboldt-Universität zu Berlin, Berlin, GermanyExperience

## Lectures

Real Analysis for Physicists, Winter Semester (WS) 2014 Variational Inequalities, Summer Semster (SS) 2014 Nonlinear Optimization, SS 2013

# Recitations

Linear Algebra, WS 2012/2013 Real Analysis I, SS 2012 Real Analysis I, WS 2011/2012 Real Analysis II, SS 2011 Applied Mathematics for Computer Scientists, WS 2010/2011 Real Analysis II, SS 2010 Real Analysis I, WS 2009/2010

## Stevens Institute of Technology, Hoboken, New Jersey USA

### Recitations

Calculus IV, Spring Semester (SpS) 2006 Calculus I, Fall Semester (FS) 2005/2006 Calculus II, SpS 2005 Calculus I, FS 2004/2005

Advising & Supervision	Humboldt-Universität zu Berlin, Berlin, Germany Supervision and Second Reviewer			
	Julius Seiberl, B.S. Mathematics (with M. Hintermüller), 11.2012 Daniel Zechlin, B.S. Mathematics (with M. Hintermüller), 05.2012 Jennifer Rasch, M.S. Mathematics (with M. Hintermüller), 07.2012 Tobias Keil, M.S. Mathematics (with M. Hintermüller), 06.2013 Adrian Kämmler, M.S. Mathematics (with M. Hintermüller), 01.2014 Andrea von Schirp, M.S. Mathematics (with M. Hintermüller), 06.2014 Robert Patho, Ph.D. Mathematics (Charles University Prague), (2 <sup>nd</sup> Rr.), 11.2014 Philipp Heltzel, B.S. Mathematics, (tentative) 12.2014 Magdalena Nöth, M.S. Mathematics, (tentative) 2015 Andrea von Schirp, Ph.D. Mathematics (with M. Hintermüller), (tentative) 2018			
Stipends, Awards, Etc.	<ul> <li>Stipends</li> <li>Member of DFG Research Training Group 1128 "Multiphase Problems", 08.2006-05.2009</li> <li>Teaching Assistantship, Department of Mathematics, Stevens Institute of Technol- ogy, 08.2004-05.2006</li> </ul>			
	<ul> <li>Scholarships</li> <li>ECE/NSF Undergraduate Research Scholarship, 2002-2003</li> <li>The Charles L. Petchek Scholarship, 2003</li> <li>Stevens Technogenesis Summer Research Program, 06.2003-08.2003</li> <li>Stevens Technogenesis Summer Research Program, 06.2002-08.2002</li> <li>Stevens Institute of Technology University Scholarship, 2000-2004</li> </ul>			
Languages	English (native-speaker) German (fluent) talian (basic knowledge)			