

BOOK OF ABSTRACTS

ORGANISED SESSIONS	11
Social Networks and Inequalities in Health (Session 2)	11
<i>A network approach to integrate theories of cognition, society, and inequality</i>	11
<i>Social networks of older people in the UK: are there positives as well as negatives?</i>	13
<i>Body-mass index and social networks among adolescents: Evidence from four European countries</i>	14
<i>Network, School and country variations in Adolescents' Health Behaviour: A Multilevel and Multiple Classification Social</i>	
<i>Network Analysis of Binary Response Variables in six European cities.</i>	15
Socio-semantic networks: Political network and public opinion (Session 3; Part 1)	16
<i>Socio-semantic networks in the European vaping and fracking policy debates</i>	16
<i>What can online discussions teach us about political polarization?</i>	18
<i>Analyzing the Discourse on Asylum in Germany Before and After New Year's Eve 2015/16</i>	19
<i>Socio-semantic configuration of a Twitter territory</i>	20
Socio-semantic networks: Theoretical and methodological contribution to socio-semantic networks (Session 3; Part 2)	21
<i>Principles of the Social Construction of Reality – A Multilevel Network Approach</i>	21
<i>Toward a typology of networks taking into account social and semantic relationships</i>	22
<i>Social and symbolic relations in the Parliament of the Weimar Republic</i>	23
Socio-semantic networks: Exploring fields (Session 3; Part 3)	24
<i>Searching for the social structure of the happiness industry field</i>	24
<i>Social ties and the academic self. A multilevel network study.</i>	25
<i>Nonprofit mission framing: Evidence of variation across local United Way organizations</i>	26
<i>Socio-semantic Aspects of Wikipedia Usage across Five Languages</i>	28
Networks in Archaeology and History (Session 4; Part 1)	29
<i>A formal network approach to ancient Mediterranean urbanisation process</i>	29
<i>Agent Based Modeling and Archeological Networks - Refining the Material Based Approach</i>	30
<i>Modeling innovation spread in archaeological networks</i>	31
Networks in Archaeology and History (Session 4; Part 2)	32
<i>The social dimension of credit relations: an application of SNA to an early modern merchant firm</i>	32
<i>Mass genealogy: Top 1% of 19-th century Polish society as a single family network (PageRank-like analysis)</i>	33
<i>The Network of zemstvo' deputies in the Perm province in the second half of the 19th century: Dynamics and features of the formation</i>	35
Networks in Archaeology and History (Session 4; Part 3)	36
<i>: 'O Rus! Elite networks and gentry politics in pre-revolutionary Russia: The blacksoil nobles, 1861-1905'</i>	36
<i>Hidden Archives and Lavish Libraries: Promises of Social Network Analysis for Research on Twentieth-Century China</i>	37
<i>Building a Scientific Field in the Post-World War II Era: A Network Analysis of the Renaissance of General Relativity</i>	38
<i>The elephant in the room of political parties: how patronage networks influenced leadership. A historical approach</i>	39
Social Networks and Intergroup Relations: New Questions and Challenges (Session 5; Part 1)	41
<i>Be the Smart Guy: The Role of Gender and Ethnicity in Ability Attribution Processes in the Classroom</i>	41
<i>The interplay between ethnic composition and out-group attitudes as possible explanation for ethnic homophily in schoolchildren's friendship networks</i>	42
<i>The simultaneous development of ethnic segregation and health disparities among primary school children: a dynamic social network approach</i>	44
<i>Adolescents' Ethnic Self-Identification and the Formation of Interethnic Friendships</i>	45
Social Networks and Intergroup Relations: New Questions and Challenges (Session 5; Part 2)	46
<i>Intergroup Relations in Acquaintanceship Networks</i>	46
<i>Group violence, ethnic diversity and citizen participation: evidence from Indonesia</i>	47
<i>Assessing the structural conditions for ethnic boundary making: the role of ethnic segregation across school tracks</i>	48
Varieties of Qualitative Perspectives in Social Network Analysis: Methodological issues (Session 6; Part 1)	49
<i>Perceptions of Precarity - Facing methodological challenges in reconstructing dynamics of social network structures and social support</i>	49
<i>How to analyze deinstitutionalization and institutionalization of relational roles</i>	51
<i>Qualitative Typologization, networks and homophily. Tracing story-based interaction patterns</i>	53
<i>The duality of culture and social structure in the art field: a qualitative network analysis</i>	55

Varieties of Qualitative Perspectives in Social Network Analysis: Methods (Session 6; Part 2)	56
<i>The Truth Within – Re-interpreting the concept of social ties for social network research in the digital realm</i>	56
<i>Event-Based Diaries as a method for investigating the practical formation of networks</i>	58
<i>Using Graphical Bibliometric Reconstructions of Research Trails for Qualitative Investigations of Issue-Attention-Cycles in Science</i>	59
Varieties of Qualitative Perspectives in Social Network Analysis: Stories (Session 6; Part 3)	60
<i>Two sides of entrepreneurial support: Support ties emerging amidst mismatch between supporter and supported</i>	60
<i>Meaning, Content and Stories in eSNA. Personal Support Networks of Early Career Researchers in Educational Science.</i>	62
Varieties of Qualitative Perspectives in Social Network Analysis: Ego-centric networks (Session 6; Part 4)	63
<i>Snapshot vs. Biography: Ego-Centered Social Networks in Biographic Perspective</i>	63
<i>Differences in the network structure of female professors from different scientific disciplines</i>	64
<i>Networks as identification resource – Evidence from narrative self-verifications of nascent entrepreneurs</i>	65
Networks and the Labour Market (Session 7; Part 1)	66
<i>Networks and status attainment: evidence from Spain</i>	66
<i>Occupational Mobility Networks</i>	67
<i>More than looking for a job, or: How refugees try to get a foothold in the German labour market</i>	68
Networks and the Labour Market (Session 7; Part 2)	69
<i>Teachers' labor market mobility in Sweden: Traces of the education reforms at the micro level</i>	70
<i>Gender, networks and career in Academia: Reevaluating evidence from Germany and Sweden</i>	71
Climate change networks (Session 8; Part 1)	72
<i>Multi-level analysis of networks for sustainability transition in industrial areas</i>	72
<i>Enter "KlimaNetze": Social networks and sustainable transformations in urban climate protection</i>	74
<i>Social networks and the transformation of local electricity governance – cases from Germany</i>	75
Climate change networks (Session 8; Part 2)	76
<i>Who cares about coastal carbon? Using social network analysis to map the structure of an emergent issue field (ID 1377)</i>	76
<i>Divergent Neighbors: Corporatism and Climate Policy Networks in Finland and Sweden</i>	77
<i>Participation within community-led energy projects: The role of social networks</i>	78
<i>Online debate about climate change: Echo chambers and the structure of the climate news ecosystem</i>	79
Psychological perspectives on social network analysis (Session 9)	80
<i>A psychological mixed-methods longitudinal study on personal network constitution and change: Concepts and first results of a student sample</i>	80
<i>Understanding information search through an interactive networking game</i>	81
<i>Personality and the Creation of Social Capital</i>	82
<i>Overload and intention to leave: the negative effects of employees' network embeddedness</i>	83
<i>Leader centrality, satisfaction and team performance in workgroups: The analysis of instrumental and expressive networks</i>	84
Networks for Learning: Network coevolution & social influence in Education & learning (Session 10; Part 1)	85
<i>Asymmetric social influence and the diffusion of high and low academic performance</i>	85
<i>Social networks and favourite subjects: can friends explain gender differences in STEM preferences?</i>	86
<i>Peer Effects in Online Mentoring – A Longitudinal Network Analysis</i>	87
<i>Memory of ties: An educational network study over 10 years</i>	88
Networks for Learning: Online social networks & Professional learning (Session 10; Part 2)	89
<i>What is going on? Assessing Network Positions within Online (Informal) Networks for Educational Practitioners</i>	89
<i>The Effect of Organizational Structure and Cross-boundary Advice Seeking on Unit and Individual Learning</i>	91
<i>The breath and depth of knowledge exchanged in a Twitter community</i>	92
Networks for Learning: SNA methods in Education (Session 10; Part 3)	93
<i>Mixed Methods Approaches to Social Network Analysis in Learning and Education</i>	93
<i>Nash equilibrium with knowledge externality in students' collaboration network</i>	94
<i>Collecting Network Data of First-semester Students: A Photo Approach</i>	95
Networks for Learning: Teachers' social networks (Session 10; Part 4)	96
<i>Unravelling The Teacher Induction Period Using Social Network Analysis</i>	96

<i>Understanding teacher collaboration for helping at risk-students to succeed against the odds: A social network perspective</i>	98
<i>Teachers' Mental Models as Predictors of Advice Seeking: A Multilevel Social Network Analysis</i>	100
<i>Teachers' Social Networks and Evidence Based Practice in German Schools</i>	101
Networks for Learning: Theory in Education & Social Networks (Session 10; Part 5)	102
<i>Towards a better understanding of the peer group context: The influence of close friends on the individual educational achievement and aspirations</i>	102
<i>Theoretical dimensions of interpersonal trust in an educational network</i>	103
<i>'Collective embeddedness' and social structure in schools: the case of a low-SES primary school going through a collective music-making intervention</i>	104
<i>Embedding Social Network Analysis into Educational Theory</i>	105
Political Networks: Online networks (Session 11; Part 1)	107
<i>Dynamic Networks of News Consumption: Online Traffic during the 2016 Brexit Campaign in the UK</i>	107
<i>#Pizzagate: Network dynamics of the alt-right 'echo-system'</i>	108
<i>Exploring the Facebook network of German anti-immigration groups</i>	109
Political Networks: National and subnational political networks 1 (Session 11; Part 2)	110
<i>Negotiating conflict on e-cigarettes in policy debates</i>	110
<i>Strategic Action Field of the Polish Extreme Right, 1990-2013</i>	111
Political Networks: Parliamentary networks (Session 11; Part 3)	113
<i>Legislative co-sponsorship: Interest groups as hidden links?</i>	113
<i>Homophily, cosponsorship, and voting among legislators: New evidence from Ukraine</i>	114
<i>Information Networks of German Parliamentarians</i>	115
<i>Evolving affiliations amongst UK politicians</i>	116
Political Networks: National and subnational political networks 2 (Session 11; Part 4)	117
<i>Climate Change Policy Networks in the Czech Republic</i>	117
<i>Explaining intergovernmental cooperation in the water sector: The network of concordats among Swiss cantons</i>	118
<i>Explaining cooperation in "Save Cabo Pulmo" campaign: a multiplex perspective.</i>	119
<i>Driving changes or reserving stability? Transformation of political networks in Ukraine during 2002-2017</i>	120
Political Networks: International and comparative networks (Session 11; Part 5)	121
<i>Network governance in international organizations: Lessons from World Bank trust funds</i>	121
<i>Mapping the Community Structure of Far-Right Movements in the Czech Republic and Germany</i>	122
<i>Modelling multilevel network dynamics and the evolution of complex environmental governance</i>	123
Political Networks: Conceptual / methodological innovations (Session 11; Part 6)	124
<i>Governance Robustness & Resilience</i>	124
<i>Conflicts as Networks of Event Orderings</i>	125
<i>The duality of issues and organizations: A network approach to the exploration of collective agendas</i>	126
<i>The role of personal networks along institutional ventures. Insights from the Bolivian case.</i>	127
Social Networks and Regional Economic Development: Regional Clusters, Knowledge and Collaboration (Session 12; Part 1)	128
<i>Tie creation versus tie persistence in cluster knowledge networks</i>	128
<i>Dyadic Analysis of Migration Flows across Italian Provinces</i>	129
<i>Innovation Networks Anchored into a Regional Scale: Looking for Smart Specialization Tendencies in the Portuguese Centro Region.</i>	130
Social Networks and Regional Economic Development: Regional Development, Migration and Global Markets (Session 12; Part 2)	132
<i>Migrant enclaves and industrial districts: a complex interaction</i>	132
<i>Re-Making social spaces: Networks of internally displaced persons (IDPs) and support organizations in Ukraine</i>	133
<i>Upgrading in global markets through relational work</i>	134
<i>A network-based approach to Food security and nutrition systems</i>	135
Social Networks and Regional Economic Development: Cities and Networks (Session 12; Part 3)	136
<i>Polycentric urban systems: a multidimensional approach of networks</i>	136
<i>A Tale of two Cities in the Greek Crises: Social Network-Based Resilience and Spatial Structures of Regional Cooperative Banks of Chania and Karditsa</i>	138
<i>Comparing spatial and economic network analysis in Greater Manchester, UK</i>	140

Negative Ties and Signed Graphs: Negative ties in schools and the workplace (Session 13; Part 1)	141
<i>Helping victims of bullying: The co-occurrence of defending, friendship, and dislike relationships</i>	141
<i>Status Goals in School Bullying: The Co-evolution of Rejection and Bullying among Children</i>	142
<i>Can collective experiences lead to negative ties? The case of a low-SES primary school going through a collective music-making intervention</i>	143
Negative Ties and Signed Graphs: Methods in signed graph/negative ties research (Session 13; Part 2)	145
<i>Networks of Supreme Court Overturning Decisions</i>	145
<i>"I ain't got no quarrel with anyone" - How to measure negative ties? A comparison of qualitative and quantitative data collection.</i>	146
<i>A Triadic View of Political Power in Signed Graphs: Exploring the Political Independence Index in the International Geopolitical Context</i>	147
Negative Ties and Signed Graphs: Organisational and online signed graph/negative ties research (Session 13; Part 3)	148
<i>Negative experiences and negative ties: An analysis of the interdynamics of perceived exposure to workplace bullying and positive and negative social relations at work</i>	148
<i>Bi-polar hierarchies: A study on the structure of coordination and control in Wikipedia</i>	149
<i>Network antecedents of catch22-routines: Damned if you do, damned if you don't</i>	150
<i>The good and the bad - The Role of Balance, Status and Homophily in a Signed Tie Online Network in Germany</i>	151
Sport and Networks (Session 14; Part 1)	152
<i>Tactical Insights from an Underdog Team: Network analysis of Iceland in the Euro 2016 against the teams of Portugal and England</i>	152
<i>From the "Special One" to the "Sacked One": the Effects of Manager Turnover on Passing Networks in Soccer Teams</i>	153
<i>The connections of the connectors. Consultants of football players and their relationships</i>	154
Sport and Networks (Session 14; Part 2)	155
<i>Social Network Analysis of Women's College Basketball</i>	155
<i>Social Networks and Retention of Members in Organized Sports</i>	156
<i>Organized Sports, Gendered Networks?</i>	157
Analysis of longitudinal personal and small social network analysis (Session 15)	158
<i>Bargaining Power and Network Dynamics</i>	158
<i>New Kids on the Job - Analysing the emerging intra-organizational networks of newcomers and the social capital they provide.</i>	159
<i>Personal network dynamics in reference to physical activity behaviours</i>	161
Theory and Methods of Multiplex Network Analysis I (Session 16; Part 1)	162
<i>Field theory as a framework to tripartite analysis of agency</i>	162
<i>Optimization-based local simplification of multiplex networks</i>	163
<i>Multi-Graph Sampling Strategies for Conditional Uniform Graph Tests of Multiplexity Statistics</i>	165
<i>Clustering and network analysis of techno-economic segments characterizing emergent industries</i>	166
Theory and Methods of Multiplex Network Analysis: II (Session 16; Part 2)	168
<i>Information based approach for the detection of normative clusters. Analysis of post-disaster ordinances promulgation in Italy</i>	168
<i>Factorial methods to investigate multiplex network data</i>	170
<i>Community detection on multiplex social media data</i>	171
Methodological Advances in the Study of Corporate Networks Fracturing and Concentration (Session 17; Part 1)	173
<i>The Promise and Perils of Using Big Data in the Study of Corporate Networks: Problems, Diagnostics and Fixes</i>	173
<i>Multi-layer Motif Detection Algorithms for Understanding Corporate Networks</i>	174
<i>Pruning large corporate networks for core identification</i>	175
<i>Delineating the Corporate Elite: Inquiring the Boundaries and Composition of Interlocking Directorate Networks</i>	176
Methodological Advances in the Study of Corporate Networks Fracturing and Concentration (Session 17; Part 2)	177
<i>Uncovering Offshore Financial Centers: Conduits and Sinks in the Global Corporate Ownership Network</i>	177
<i>Pathways to the Power Elite - Career and network alignment in the study of elite concentration</i>	178
<i>Board appointments as a flow of events: Using relational event modelling for corporate networks</i>	179
<i>A country for old men: The inner circle in Danish corporate networks 1987-2016</i>	180
Corporate Networks around the Globe: Power Structure Methods (Session 18; Part 1)	181
<i>Limitations of Orbis relational data – the case of UK director interlocks</i>	181
<i>International networks of corporate power: What do interlocks matter?</i>	182

<i>Beyond Intercompany Networks: the Policy Planning Network as the Center of the Corporate Power Structure</i>	183
Corporate Networks around the Globe: Business-State Networks (Session 18; Part 2)	184
<i>Leviathan and Business in Ukraine: Opening the black-box of the business-state symbiosis</i>	184
<i>Collaborative ties between private companies and countries in water sector</i>	185
<i>Assessing State Capitalism through cross-border ownership networks</i>	186
<i>China Goes West! Transnational networks of Chinese business elites and firms investing in Europe and the US</i>	187
Corporate Networks around the Globe: Corporate Networks and Company Behavior (Session 18; Part 3)	188
<i>Network heterogeneity and the influential networks behind Germany's largest listed companies</i>	188
<i>The centrality of female directors: The law of gender quotas and interlocking directorates in Norway</i>	189
<i>Social network, board interlocks and firms' financial decisions: A case study of Italy</i>	190
<i>The chemical brothers": The evolution of the board interlock network in the German chemical industry, 1950-2015</i>	191
Multilevel Network Perspectives in and around Organizations: Multilevel large datasets: methodological issues and empirical cases (Session 19; Part 1)	192
<i>Multilevel blockmodeling for "larger" networks</i>	192
<i>Multidimensional and Multilevel Analysis to Find and Describe Irregular Patterns in Political Communication on Twitter</i>	193
<i>Dare to share? – How people share high-quality knowledge in online communities</i>	194
Multilevel Network Perspectives in and around Organizations: Multilevel network studies in the public sector (Session 19; Part 2)	195
<i>A multilevel network study of sociability and governance of a common resource in Senegal</i>	195
<i>Geographies of Knowledge of European Educational Research - A Social Network Analysis of Educational Research in the Framework Programme (1994-2013)</i>	196
<i>Assessing the efficacy of self-organising project teams in a complex, research-intensive environment.</i>	197
Multilevel Network Perspectives in and around Organizations: Multilevel networks in organizations (Session 19; Part 3)	198
<i>Cluster events: Arenas of informal networking and formal alliance formation? A multi-level network approach</i>	198
<i>Recombinant capabilities for individual and organizational performance in the Biotech industry</i>	199
<i>Conferences as a source of external knowledge: a multilevel level perspective.</i>	200
Network Analysis of Political Power (Session 20)	202
<i>An approach to the study of power based on the concepts of duality and structural equivalence</i>	202
<i>Normative Power in the Asia-Pacific Region: Network Analysis of Free Trade Agreements</i>	203
<i>Centrality and Power: Network Analysis of Interstate Military Conflicts</i>	204
<i>The BRIC phantom: 'globalization', mobility and structural change to the global power system, 1965 – 2005</i>	205
Social Networks in Healthcare (Session 21; Part 1)	206
<i>Policy network in occupational safety and health in Slovenia</i>	206
<i>Knowledge sharing in interdisciplinary networks of health care professionals</i>	207
<i>Social network structure and healthcare coordination: an egocentric perspective</i>	208
Social Networks in Healthcare (Session 21; Part 2)	209
<i>Exploring how multimorbidity care is managed and coordinated for an older Irish population within formal healthcare organisational structures and within informal networks: Preliminary results from an Irish study</i>	209
<i>The Impact of Networking on Multi-Source Feedback Assessments for UK General Practitioners: A Social Network Analysis</i>	211
<i>Physicians knowledge-sharing and Multidisciplinary Tumor Boards (MTB)</i>	213
<i>Caregiving family networks and their impact on balancing caregiving for a home-dwelling relative with dementia and requirements of the family- and work-life: a planned mixed methods study</i>	214
Social Networks in Healthcare (Session 21; Part 3)	215
<i>Accessibility of Health Services for Young Latino MSM in Miami provided through Health Service Networks and Social Venue Networks</i>	215
<i>Interorganizational health care networks for outpatient care: Structural patterns and relevance for health care provision</i>	217
<i>Multiple chronic conditions in older people and their effects on health care utilization: a network analysis approach using SHARE data</i>	218
Modeling Network Dynamics II: Time-stamped Network Data (Session 22; Part 1)	219
<i>Multiple Imputation for Stochastic Actor Oriented Models</i>	219
<i>Tracking Local Communities in Dynamic Networks using Surface Tension</i>	220

<i>Analysis of temporary networks with time series modeling: an application to the Chinese contemporary art museum system</i>	221
Modeling Network Dynamics II: Time-stamped Network Data (Session 22; Part 2)	222
<i>Dynamic Network Actor Models (DyNAMs): An actor-oriented framework for studying time-stamped network data</i>	222
<i>Some days are better than others: Examining time-specific variation in the structuring of interorganizational networks</i>	223
<i>Predicting Relational Events</i>	224
<i>Collaboration between Software Developers and the Impact of Proximity</i>	225
Modeling Network Dynamics III: Applications (Session 22; Part 3)	226
<i>Exploring the dynamics of depressive symptoms and face-to-face interactions with DyNAM</i>	226
<i>Financial markets as evolving relational systems: Models and preliminary results from a study of European interbank market</i>	227
<i>Dynamicity as an innovation indicator in a longitudinal social network</i>	228
<i>The Serendipity of Friendship</i>	229
Social Influence (Session 23; Part 1)	230
<i>Adolescents' socio-digital participation and school achievements: Selection and influence effects of peer friendship networks</i>	230
<i>Social and human capitals in academic performance. The complex coevolution of student health, social networks and academic performance</i>	231
<i>Peer Effects on Adolescent Delinquency and Substance Use: A Meta-Analysis of Stochastic Actor-Oriented Models</i>	232
<i>Social Influence in the Formation of Attitudes towards Homosexuality among Adolescent Friends: An Instrumental Variable Approach</i>	233
Social Influence (Session 23; Part 2)	234
<i>Collapse of an Online Social Network: The Blame on Social Capital</i>	234
<i>Mechanisms of social capital formation within non-commercial local exchange and trade system (LETS)</i>	235
<i>Smoking motivations differences according to peer groups' gender composition. A social network study of 12 000 European adolescents.</i>	237
The role of social networks to explain political behaviour and attitudes (Session 24; Part 1)	238
<i>Facebook and revolutions: new evidence from Ukraine.</i>	238
<i>A Network Model of Selective News Consumption-Induced Fragmentation</i>	239
<i>Experimental Designs in Election Research: Are Online Political Stock Markets a New Option?</i>	240
The role of social networks to explain political behaviour and attitudes (Session 24; Part 2)	242
<i>It is not only who you are, it is also who you know and whether they know each other. Exploring the effect of social networks on political participation in Belgium</i>	242
<i>Dissimilarity in political discussion networks and change of political orientations in Switzerland</i>	243
Social Networks and Social Support (Session 25)	244
<i>Big data and alternative facts: The changing face of information as power</i>	244
<i>Do we really discuss important things with unimportant others? On the tie strength of discussion networks and important tie networks - a comparison between The Netherlands and Slovenia</i>	245
<i>Pathways to Support: The Role of Entrepreneurs' Indirect Relationships on Advice Flows</i>	246
The relevance of space, distance and mobility for egocentric networks (Session 26; Part 1)	247
<i>Does digitalization contribute to career advancement? Social networks of early career academics</i>	247
<i>The subject of innovative technology in humanities and social sciences: A methodological approach on analyzing academic egocentric networks</i>	248
<i>Personal networks and narratives about academic mobility: Visualizing the transnational mobile patterns of early stage researchers</i>	249
The relevance of space, distance and mobility for egocentric networks (Session 26; Part 2)	250
<i>Researching transnational networks in South Europe</i>	250
<i>Residential environments and personal networks in Germany</i>	251
<i>In Passing: The relational meaning of space for the occurrence of informal knowledge sharing in R&D</i>	252
Social Networks and Spatial Embedding (Session 27; Part 1)	253
<i>The Effect of Small Distances – Investigating Interaction Networks in a Workplace</i>	253
<i>Spatial diffusion and churning over the life-cycle of innovation</i>	254
<i>The Place of Interaction: Social Networks and Practices of Visual Artists in European Studios</i>	255
<i>Why some encounters encourage unplanned discussions on R&D-projects and others do not</i>	256

Social Networks and Spatial Embedding (Session 27; Part 2)	257
<i>The role of spatial and industrial proximity on the formation of inter-cluster linkages in Germany.</i>	257
<i>Spatial, Social and Professional Proximity in Hospital Wards</i>	258
<i>Social Network Analysis and its methodological potential to identify general features on Ebola Related Knowledge</i>	
<i>Producing Networks</i>	259
Network Science & Law: Presentations: Social network & Law (Session 28)	260
<i>Toward a Network Model of Soft Law: what gives Soft Law its Power?</i>	260
<i>Legal interpretation and network structures in mock trials shaping the European Unified Patent Court</i>	262
<i>The Economization of EU Competition Policy: Mapping the Network of EU Merger Control Decisions</i>	263
<i>Mapping the scholarship in International Courts: An exploration of scholar networks.</i>	264

Innovation Networks Anchored into a Regional Scale: Looking for Smart Specialization Tendencies in the Portuguese Centro Region.

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The aim is to explore the regional and sub-regional innovation ecosystems located at the Portuguese Centro Region (NUTS II e III), and their multi-dimension and multi-scale connections.

The innovation ecosystems are generated and sustained through knowledge networks connecting different actors, cutting across different geographical scales. They generate the framework for knowledge co-production and translation actions sustaining the innovation process. Through the time, it generates a process of co-specialization and complementarities interactions between different actors located inside and outside of the regional innovation system. In this interpretation, the regions are seen as dynamic entities, in permanent process of building innovation paths composed by a variety of knowledge trajectories that sometimes can be related, but others can be unrelated. These related and unrelated regional knowledge capabilities, built through the time, are the starting point for the smart specialization policy strategy. How can we reinforce the intertwining process of these regional trajectories and link them to other knowledge pools outside the region to increase the regional innovation performance is a smart specialization policy challenge.

To analyze the geographical dimension of the innovation process, we apply the social network analysis. By collecting the innovation projects developed through inter-organizational cooperation and supported by the last European founding for the period of 2007-2015, we have organized a database of all projects encompassing at least one organizational actor located at the Portuguese Centro Region. We explore different dimensions of proximity in our analysis:

- For the geographical proximity we use the location of each organization;
- For the organizational proximity we use the organizational relations intensity;
- For the knowledge proximity we use the relations between scientific areas and economic activity sector of knowledge application.

By these we aim to:

- Identify the key innovation actors inside the region and those outside connected with them;
- Explore the different inter-regional polarization levels of the actors and their cooperation relationships;
- Explore the regional and sub-regional specialization tendencies of the innovation process;
- Identify the technological areas leading the innovation process and the variety of economic activity sectors implicated;
- Identify the multi-scale nature of the organizational interactions in this innovations projects;
- Contribute to characterize the regional capabilities were the smart specialization strategies can be rooted.

We conclude by presenting a few policy implications for the smart specialization strategy.

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