Preliminary Meeting Program
Western Regional Science Association
58th Annual Meeting
Marriott Napa Valley | Napa, California
February 10–13, 2019

Saturday, February 9
12:00–6:00 PM, Registration (Stag’s Leap)

12:50–5:00 PM, Pre-WRSA Workshop: The Regional Science Academy - ABC Workshop I (Stag’s Leap)

Saturday, 12:00–5:00 PM
The Regional Science - ABC (Advanced Brainstorm Carrefour) Workshop I
Stag’s Leap

12:00
Refreshments

12:50–1:00
Greeting and Introduction to the program of TRSA ABC Workshop I
Peter NIKKAMP, Jheronimus Academy of Data Science (JADS), The Netherlands

Part 1
Chair: Hans WESTLUND, KTH Royal Inst., Sweden

1:00–1:30
Blockchains and employment effects in regions
Roger R. STOUGH, Raj KULKARNI, and Laurie SCHINTLER, George Mason Univ., Arlington, Virginia, USA, and Nishit SAHAY, RR&S Consulting Group, Fairfax, Virginia, USA

1:30–2:00
Labor markets, global value chains and digitalization
Martin ANDERSSON, Blekinge Inst. Technology, Sweden

2:00–2:30
Migrant entrepreneurship in perspective
Karima KOURTIT, Jheronimus Academy of Data Science (JADS) & Eindhoven Univ. Technology, The Netherlands

2:30–3:00
Estimating the spatial effects of CO₂ emission control policy in the transportation sector among the U.S. states
Jaewon LIM, Univ. Nevada, Las Vegas, USA, Doohwan WON, Pusan National Univ., Korea, and Sandy DALL’ERBA, Univ. Illinois, Urbana-Champaign, USA

Coffee Break: 3:00–3:30

Part 2
Chair: Arthur GETIS, San Diego State Univ., California, USA

3:30–4:00
Aging labor and industrial digitization, and its implications for non-urban economic competitiveness
Terry CLOWER, George Mason Univ., Arlington, Virginia, USA

4:00–4:30
Artificial intelligence and digitalization: Labor force effects going forward
Laurie SCHINTLER, George Mason Univ., Arlington, Virginia, USA

4:30–5:00
Reflections on growth policies in analytical planning models for cities
Tschangho John KIM, Univ. Illinois, Urbana-Champaign, USA
Sunday, February 10
8:00 AM–5:30 PM, Registration (Grand Ballroom Foyer)
8:15 AM–12:30 PM, Pre-WRSA Workshop: The Regional Science Academy - ABC Workshop II (Stag’s Leap)
3:30 PM–5:15 PM, The 9th Annual Lay James Gibson Opening Session (Grand Ballroom)
5:30 PM–7:00 PM, Welcome Reception

Sunday, 8:15 AM–12:30 PM
The Regional Science - ABC (Advanced Brainstorm Carrefour) Workshop II
Stag’s Leap

8:15
Refreshments
8:50–9:00
Greeting and Introduction to the program of TRSA ABC Workshop II
Roger R. STOUGH, George Mason Univ., Arlington, Virginia, USA and Neil REID, Univ. of Toledo, Ohio, USA

Part 3
Chair: Karima KOURTIT, JADS & Eindhoven Univ. Technology, The Netherlands

9:00–9:30
Labor changes facing the hospitality industry
Neil REID, Univ. Toledo, Ohio, USA

9:30–10:00
Political economy of asymmetric aging, productivity and economic growth
Mehmet TOSUN, Univ. Nevada, Reno, USA

10:00–10:30
Regional science and spatial planning: The need to re-connect
Peter BATEY, Univ. Liverpool, United Kingdom

Coffee Break: 10:30–11:00

11:00–11:30
Modelling endogenous regional employment performance in Australia
Bob STIMSON, Univ. Melbourne, Australia

11:30–12:00
The post-urban world: How we got there and where we are going
Hans WESTLUND, KTH Royal Inst., Sweden

12:00–12:30
Summary & Discussion of the ABC (Advanced Brainstorm Carrefour)
Peter NIJKAMP, JADS, The Netherlands, Karima KOURTIT, JADS & Eindhoven Univ. Technology, The Netherlands, Neil REID, Univ. of Toledo, Ohio, USA, and Roger R. STOUGH, George Mason Univ., Arlington, Virginia, USA

Sunday, 3:30 PM–5:15 PM
The 9th Annual Lay James Gibson Opening Session
Grand Ballroom

Chair: Lay J. GIBSON, Univ. Arizona, Tucson, USA

“Automated Transport Technology, Regional Economies, and Land Use”
Ralph MCLAUGHLIN, CoreLogic, Washington D.C., USA

Discussant: Claude GRUEN, GRUEN GRUEN + ASSOCIATES, San Francisco, California, USA

Sunday, 5:30 PM–7:00 PM
Welcome Reception
Vintner’s Ballroom

For all participants and accompanying persons: Everyone welcome!
Monday, February 11
8:00 AM–12:15 PM, Registration (Grand Ballroom Foyer)
8:30–10:00 AM, WRSA Board Meeting By invitation only (Howell Mountain)
8:30 AM–12:00 PM, Concurrent Sessions:
1A Jobs and Economic Development (Syrah)
1B Community Development Issues (Merlot)
1C Minority & Inequality (Cabernet)
1D Economic Impact (Zinfandel)
1E Agglomeration & Innovation (Stag's Leap)
1F The Keith Schwer Memorial Western State Economic Outlook I – starts at 10:30 AM (Howell Mountain)
10:00–10:30 AM, Coffee Break (Grand Ballroom Foyer)
12:00–1:30 PM, Lunch Break (On your own this day)
1:00–5:00 PM, Registration Continues (Grand Ballroom Foyer)
1:30–5:00 PM, Concurrent Sessions:
2A Local Public Finance (Syrah)
2B Infrastructure & Development (Merlot)
2C Public Health (Cabernet)
2D Spatial Statistics & GIS I (Zinfandel)
2E Population & Mobility (Stag's Leap)
2F The Keith Schwer Memorial Western State Economic Outlook II – (Howell Mountain)
3:00–3:30 PM, Coffee Break (Grand Ballroom Foyer)
5:15–7:30 PM, 7th Annual Getis-Ord Lecture in Spatial Analysis (Napa Valley Ballroom)
7:30–8:30 PM, Getis-Ord Lecture Reception (Vintner's Ballroom)

Monday, 8:30–10:00 AM
WRSA Board Meeting (by invitation only)
Howell Mountain
Convenor: Jaewon LIM, Univ. Nevada, Las Vegas, USA

Monday, 8:30 AM–12:00 PM
Paper Session 1A ~ Syrah
Jobs and Economic Development
Chair: Asao ANDO, Tohoku Univ., Japan
8:30–9:15
Job loss and earnings -- heterogeneity in effects by spatial access to jobs
Olle WESTERLUND, Kent ELIASSON, and Ingeborg WAERNBAUM, Umeå Univ. Sweden
Discussant: Sharmistha BAGCHI-SEN, Univ. Buffalo, New York, USA
9:15–10:00
Governance and distance: Evolution of labor market institutions
Masaki NAKABAYASHI, Univ. Tokyo, Japan
Discussant: Seung-hun CHUNG, Ohio State Univ., Columbus, USA

10:30–11:15
Import competition, job polarization, and geography: Plant-level skill demand in the U.S.
Mina KIM, Bureau of Labor Statistics, Washington D.C., USA, Jooyoun PARK, Kent State Univ., Ohio, USA
Discussant: Jonna RICKARDSSON, Jönköping University, Sweden

11:15–12:00
Do robots increase wages? A topic modeling approach at individual and metropolitan levels
Nancey Green LEIGH, Heonyeong LEE, and Benjamin R. KRAFT, Georgia Inst. Technology, Atlanta, USA
Discussant: Koichi FUKUMURA, Univ. Tokyo, Japan

Coffee Break: 10:00–10:30
Monday, 8:30 AM–12:00 PM
**Paper Session 1B ~ Merlot**
**Community Development Issues**
Chair: Stephan GOETZ, Pennsylvania State Univ., University Park, USA

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<th>Speaker</th>
<th>Discussant</th>
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<tr>
<td>8:30-9:15</td>
<td>Understanding the problems of anaerobic digestion deployment in different regions: consultation, confrontation and forms of proximity</td>
<td>Sebastien BOURDIN, Ecole de Management de Normandie, France</td>
<td>Karima KOURTIT, Jheronimus Academy of Data Science (JADS) &amp; Eindhoven Univ. Technology, The Netherlands</td>
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<td>9:15-10:00</td>
<td><strong>Nature &amp; well-being in the French city: Desire and Homo qualitus</strong></td>
<td>Lise BOURDEAU-LEPAGE, Univ. Lyon CNRS, France</td>
<td>Steven G CRAIG, Univ. Houston, Texas</td>
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<td><strong>Coffee Break: 10:00-10:30</strong></td>
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<td>10:30-11:15</td>
<td><strong>The Economic impact of small regional commissions: Evidence from the Delta Regional Authority</strong></td>
<td>Tyler MORIN, Ohio State Univ., Columbus, USA</td>
<td>Pengyu ZHU, Univ. Hong Kong, China</td>
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<td><strong>Template-based software architecture for modular and reproducible urban modeling</strong></td>
<td>Samuel MAURER and Paul WADDELL, Univ. California, Berkeley, USA</td>
<td>Joe FRANCIS, Cornell Univ., Ithaca, New York, USA</td>
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<td><strong>Coffee Break: 10:00-10:30</strong></td>
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Monday, 8:30 AM–12:00 PM
**Paper Session 1C ~ Cabernet**
**Minority & Inequality**
Chair: Juan Carlos LOPEZ, Univ. Denver, Colorado, USA

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<td>8:30-9:15</td>
<td><strong>Panel vector auto-regression analysis among ecological footprint, GDP and gender inequality: Evidence from Belt &amp; Road Initiative (BRI)</strong></td>
<td>Hongbo LIU, Seoul National Univ., Korea</td>
<td>Yong KIM, Purdue Univ., W. Lafayette, Indiana, USA</td>
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<td>9:15-10:00</td>
<td><strong>Recruitment of child soldiers in Colombia: a spatial approach</strong></td>
<td>Juan Sayago SAYAGO-GOMEZ, Universidad Icesi, Colombia</td>
<td>Peter ROGERSON, Univ. Buffalo, New York, USA</td>
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<td><strong>Coffee Break: 10:00-10:30</strong></td>
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<td>10:30-11:15</td>
<td><strong>Hate crimes and minority owned businesses</strong></td>
<td>Karl GEISLER, Idaho State Univ., Pocatello, USA</td>
<td>Carl E. ENOMOTO and Theophilus DJABA, New Mexico State Univ., Las Cruces, USA</td>
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<td>Richard GEARHART, California State Univ., Bakersfield, USA</td>
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<td>11:15-12:00</td>
<td><strong>The bottom, the typical, and the top of the income distribution in South Korea: A quantile regression analysis</strong></td>
<td>Yuri MANSURY, Illinois Inst. Technology, Chicago, USA, and Jae Beum CHO, Indiana Univ., Bloomington, USA</td>
<td>Myounggu KANG, Univ. Seoul, Korea</td>
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Monday, 8:30 AM–12:00 PM
**Paper Session 1D ~ Zinfandel**
**Economic Impact**
Chair: Chang SEUNG, NOAA Fisheries, Seattle, Washington, USA

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<td>8:30-9:15</td>
<td><strong>An economic impact analysis of oil and natural gas development in the Permian Basin</strong></td>
<td>Haoying WANG, New Mexico Tech, Socorro, USA</td>
<td>Michael BETZ, Ohio State Univ., Columbus, USA</td>
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<td>9:15-10:00</td>
<td><strong>Measuring economic contributions of the marine recreational charter fishing sector using a resampling approach</strong></td>
<td>Daniel LEW, NOAA Fisheries, Davis, California, USA and Chang SEUNG, NOAA Fisheries, Seattle, Washington, USA</td>
<td>Qiao WU, Univ. Southern California, Los Angeles, USA</td>
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Coffee Break: 10:00-10:30
10:30–11:15

The spatial structure of inter-cluster inter-dependencies in China Greater Bay area
Meng YU, Yue WANG, and Xingjian LIU, Univ. Hong Kong, China
Discussant: Laurie SCHINTLER, George Mason Univ., Arlington, Virginia, USA

11:15–12:00

Selling Utah: How much the "Mighty 5" helps boost tourism and Utah economy?
Tatiana DRUGOVA, Man-Keun KIM, and Paul M. JAKUS, Utah State Univ., Logan, USA
Discussant: Soomi LEE, Univ. La Verne, California, USA

Monday, 8:30 AM–12:00 PM

Paper Session 1E ~ Stag’s Leap
Agglomeration & Innovation
Chair: Shaoming CHENG, Florida International Univ., Miami, USA

8:30–9:15

Roads and the geography of economic activities in Mexico
Brian BLANKESPOOR, Théophile BOUGNA, and Harris SELOD, World Bank, Washington, DC, USA, and Rafael GARDUNO-RIVERA, CIDE & Universidad Panamericana, Mexico
Discussant: Jae Hong KIM, Univ. California, Irvine, USA

9:15–10:00

Do dynamic business environments differentially attract high- and low-skill labor force participants? Evidence from the NLSY97
Sydney SCHREINER, Ohio State Univ., Columbus, USA
Discussant: Pia NILSSON, Jönköping University, Sweden

10:30–11:15

Regional knowledge level and economic resilience
Rui YAN and Timothy SLAPER, Indiana Univ., Bloomington, USA
Discussant: Oudom HEAN, Ohio State Univ., Columbus, USA

11:15–12:00

City size, wage inequality and firm productivity: The role of the firm in economy-wide income dispersion
Daniel HALVARSSON and Martin KORPI, Ratio Inst., Sweden
Discussant: Saba NIJKHAH MANESH, Univ. Nevada, Las Vegas, USA

Monday, 10:30 AM–12:00 PM

Paper Session 1F ~ Howell Mountain
The Keith Schwer Memorial Western State Economic Outlook I: Will the Recovery Ever End?
Chair: Richard R WOBBEKIND, Univ. Colorado, Boulder, USA

10:30–11:00

Arizona
George HAMMOND, Univ. Arizona, Tucson, USA

11:00–11:30

Utah
Juliette TENNERT, Univ. Utah, Salt Lake City, USA

11:30–12:00

Colorado
Richard R. WOBBEKIND, Univ. Colorado, Boulder, USA

Monday, 1:30 PM–5:00 PM

Paper Session 2A ~ Syrah
Local Public Finance
Chair: Terry CLOWER, George Mason Univ., Arlington, Virginia, USA

1:30–2:15

Samuelson meets Federalism: Local production of a national public good
Steven G. CRAIG, Univ. Houston, Texas, USA, Jan K. BRUECKNER, Univ. California, Irvine, USA, Kangoh LEE, San Diego State Univ., California, USA
Discussant: Peter NIJKAMP, Jheronimus Academy of Data Science (JADS), The Netherlands
2:15–3:00  
New findings of the local parcel tax in California cities, counties, and school districts  
Soomi LEE, Univ. La Verne, California, USA  
Discussant: John CHO, Southern California Assoc. Governments, Los Angeles, USA  

3:00–3:00  
Coffee Break: 3:00–3:30

3:30–4:15  
Property tax, local sales tax and business activity: A spatial analysis  
Mehmet TOSUN and Quan SUN, Univ. Nevada, Reno, USA  
Discussant: Yeol Choi, Pusan National Univ., Korea

4:15–5:00  
Can bureaucrats manipulate policy outcomes?  
Steven G. CRAIG, Univ. Houston, Texas, USA, Edward C. HOANG, Univ. Colorado, Colorado Springs, USA, and Janet KOHLHASE, Univ. Houston, Texas, USA  
Discussant: Chad CHRIESTENSON, Univ. Wisconsin, Madison, USA

Monday, 1:30 PM–5:00 PM  
Paper Session 2B ~ Merlot  
Infrastructure & Development  
Chair: Rick CHURCH, Univ. California, Santa Barbara, USA

1:30–2:15  
Broadband and narrowband internet in Nepal  
Jitendra PARAUULI and Kingsley HAYNES, George Mason Univ., Arlington, Virginia, USA  
Discussant: Bob STIMSON, Univ. Melbourne, Australia

2:15–3:00  
Is higher-quality land developed earlier?  
Juan Carlos LOPEZ, Univ. Denver, Colorado, USA and Richard ARNOTT, Univ. California, Riverside, USA  
Discussant: Ina BLIND, Uppsala Univ., Sweden

3:30–4:15  
Seoul as an urban empire: Evidence from spatial interaction models  
John CARRUTHERS and Su-Jung LEE, George Washington Univ., Washington DC, USA  
Discussant: Lise BOURDEAU-LEPAGE, Univ. Lyon CNRS, France

4:15–5:00  
Rail transit expansion and its impact on urban infill dynamics  
Jae Hong KIM and Douglas HOUSTON, Univ. California, Irvine, USA, Ashley (Wan-Tzu) LO, Tohoku Univ., Japan, and Jaewoo CHO, Korea Advanced Inst. Science and Technology, Korea  
Discussant: Nancey Green LEIGH, Georgia Inst. Technology, Atlanta, USA

Monday, 1:30 PM–5:00 PM  
Paper Session 2C ~ Cabernet  
Public Health  
Chair: Brian H.S. KIM, Seoul National Univ., Korea

1:30–2:15  
Estimating the effect of Colorado’s recreational marijuana legalization in 2012 on non-marijuana related drug abuse violations: A synthetic control method analysis  
Qiao WU and Yougeng LU, Univ. Southern California, Los Angeles, USA  
Discussant: Timothy SLAPER, Indiana Univ., Bloomington, USA

2:15–3:00  
Shale boom, drug bust: Did the oil and gas boom dampen or exacerbate the drug crisis in rural American communities?  
Michael BETZ and Lauren E. JONES, Ohio State Univ., Columbus, USA  
Discussant: Stephan GOETZ, Pennsylvania State Univ., University Park, USA

3:30–4:15  
Appalachian deliverance: The impact of provider density on opioid prescribing rates  
Richard GEARHART and Nyakunde MICHEKA, California State Univ., Bakersfield, USA  
Discussant: Yuri MANSURY, Illinois Inst. Technology, Chicago, USA

4:15–5:00  
Online personal health research: Urban-rural participatory diversity  
Peter STENBERG, USDA Economic Research Service, Washington DC, USA  
Discussant: Hongbo LIU, Seoul National Univ., Korea
Monday, 1:30 PM–5:00 PM  
**Paper Session 2D ~ Zinfandel**  
**Spatial Statistics & GIS I**

Chair: Luis GALVIS, Banco de la Republica-Colombia, Colombia

1:30–2:15
**Fast MCMC estimation of multiple W-matrix spatial regression models and Metropolis-Hastings Monte Carlo log marginal likelihoods**
James LESAGE, Texas State Univ., San Marcos, USA  
Discussant: Sergio REY, Univ. California, Riverside, USA

2:15–3:00
**Simultaneous equations models with higher-order spatial or social network interactions**
Ingmar R. PRUCHA, Univ. Maryland, College Park, USA  
Discussant: Peter ROGERSON, Univ. Buffalo, New York, USA

3:30–4:15
**Comparing spatial patterns of sole proprietorship and corporate payday lenders in Seoul, Korea**
Hyoungun KIM, Bokyeong LEE, and So Young SOHN, Yonsei Univ., Korea  
Discussant: Peter BATEY, Univ. Liverpool, United Kingdom

4:15–5:00
**The relative risk of Dengue disease: Bayesian spatiotemporal analysis, forecasting and mapping**
Mindra JAYA, Padjadjaran Univ., Indonesia, Henk FOLMER, Univ. Groningen, The Netherlands, Farah KRISTIANI, Parahyangan Catholic Univ., Indonesia, and Budi Nurani RUCHJANA, Padjadjaran Univ., Indonesia  
Discussant: Irene FARAH, Univ. Chicago, Illinois, USA

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Monday, 1:30 PM–5:00 PM  
**Paper Session 2E ~ Stag's Leap**  
**Population & Mobility**

Chair: David A. PLANE, Univ. Arizona, Tucson, USA

1:30–2:15
**Where do immigrants locate in France? The untold story...**
Alexandra SCHAFFAR, Michel DIMOU, and Samuel ETTOUATI, Univ. Toulon, France  
Discussant: Mark BROWN, Statistics Canada, Ottawa, Ontario, Canada

2:15–3:00
**Temporary migration as a strategy against weather shocks: Evidence from rural India**
Yong KIM, Juan P. SESMERO, and Brigitte S. WALDORF, Purdue Univ., West Lafayette, Indiana, USA  
Discussant: Shweta GROVER, Indian Inst. Management Indore, India

3:30–4:15
**The future of our Metropolis: The relative importance of occupational variations and metropolitan types in explaining the propensities to work at home**
Pengyu ZHU, Univ. Hong Kong, China and Peter GORDON, Univ. Southern California, Los Angeles, USA  
Discussant: Mark PARTRIDGE, Ohio State Univ., Columbus, USA

4:15–5:00
**Using ACS summary data to accurately estimate housing and occupancy**
Joe FRANCIS, Cornell Univ., Ithaca, New York, USA  
Discussant: Gordon MULLIGAN, Univ. Arizona, Tucson, USA

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Monday, 1:30 PM–5:00 PM  
**Paper Session 2F ~ Howell Mountain**  
**The Keith Schwer Memorial Western State Economic Outlook II: Will the Recovery Ever End?**

Chair: Stephen MILLER, Univ. Nevada, Las Vegas, USA

1:30–2:00
**Washington**
R. Pete PARCELLS, Whitman College, Walla Walla, Washington, USA

2:00–2:30
**Northern California**
Jeff MICHAEL, Univ. the Pacific, Stockton, California, USA
3:00–3:40  
**Southern California**  
Raymond SFEIR, Chapman Univ., Orange, California, USA

3:40–4:20  
**Nevada**  
Stephen MILLER, Univ. Nevada, Las Vegas, USA

4:20–5:00  
**Florida**  
Sean SNAITH, Univ. Central Florida, Orlando, USA

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**Monday, 5:15 PM–7:30 PM**  
*The 7th Annual Getis-Ord Lecture in Spatial Analysis*  
*Napa Valley Ballroom*

Chair: Arthur GETIS, San Diego State Univ., California, USA

“Scaling Up Urban Models: Extending Spatial Systems to Embrace Hierarchies of Interaction”  
Michael BATTY, Univ. College London, United Kingdom

Discussant: Peter BATEY, Univ. Liverpool, United Kingdom

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**Monday, 7:30 PM–8:30 PM**  
*Getis-Ord Reception*  
*Vintner's Ballroom*
Tuesday, February 12
8:00 AM–12:15 PM, Registration (Grand Ballroom Foyer)

8:30 AM–12:00 PM, Concurrent Sessions:
   3A TRSA-Special Academic Session – starts at 8:00 AM (Syrah)
   3B Location & Growth (Merlot)
   3C Agriculture & Regional Development (Cabernet)
   3D Spatial Statistics & GIS II (Zinfandel)
   3E Migration & Labor Market (Atlas Peak)
   3F Environmental Issues I (Castle Peak)

10:00–10:30 AM, Coffee Break (Grand Ballroom Foyer)

12:15–2:15 PM, Annual Banquet Luncheon (Napa Valley Ballroom)

2:15–6:00 PM, Registration Continues (Grand Ballroom Foyer)

2:30–6:00 PM, Concurrent Sessions:
   4A Remote Regions I: Economics, Politics and Resource Development (Syrah)
   4B Input-Output Analysis (Merlot)
   4C Transportation & Urban Forms (Cabernet)
   4D Poverty (Zinfandel)
   4E Migration & Human Capital (Atlas Peak)
   4F Environmental Issues II (Castle Peak)

4:00–4:30 PM, Coffee Break (Grand Ballroom Foyer)

6:15–7:45 PM, President's Reception (Napa Valley Ballroom)

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Tuesday, 8:00 AM–12:00 PM
Paper Session 3A ~ Syrah
The Regional Science Academy–Special Academic Session (SAS)

8:00–8:10
Welcome Remark
Hans WESTLUND, KTH Royal Inst. Technology, Sweden

Signatures of Regional Science I
The Regional Science Academy (TRSA) Lecture Series: “The Voices of Regional Science”
Chair: Peter BATEY, Univ. Liverpool, United Kingdom

8:10–8:40
Digitization, age and entrepreneurship
Ting ZHANG, Univ. Baltimore, USA and Roger R. STOUGH, George Mason Univ., Arlington, Virginia, USA

8:40–9:10
Return of migrants and decontamination after the 2011 Fukushima nuclear power plant disaster
Shingo NAGAMATSU, Kansai Univ., Japan, Adam ROSE and Jonathan EYER, Univ. Southern California, Los Angeles, USA

9:10–9:40
Labour productivity, income and leisure
Peter NIJKAMP, Jheronimus Academy of Data Science (JADS), The Netherlands

9:40–10:10
Presentation of new book on 'Modelling Aging and Migration Effects on Spatial Labor Markets'
Roger R. STOUGH, George Mason Univ., Arlington, Virginia, USA, Peter NIJKAMP, Jheronimus Academy of Data Science (JADS), The Netherlands, Karima KOURTIT, Jheronimus Academy of Data Science (JADS) & Eindhoven Univ. Technology, The Netherlands, and Uwe BLIEN, Inst. Labor Economics (IZA), Germany

Coffee Break: 10:10–10:30
10:30–11:30
Thinking about Walter Isard, Ben Stevens and Britt Harris
Peter GORDON, Univ. Southern California, Los Angeles, USA
Ben Stevens and regional science
Kingsley HAYNES, George Mason Univ. Arlington, Virginia, USA
Philip Sargent Florence: Pioneer Regional Scientist?
Peter BATEY, Univ. Liverpool, United Kingdom
Contributions of Lawrence Klein and Michael Mischeikow to regional science
Jack OSMAN, San Francisco State Univ., California, USA
Standing on the shoulders of giants
Arthur GETIS, San Diego State Univ., California, USA

Tuesday, 8:30 AM–12:00 PM
Paper Session 3B ~ Merlot
Location & Growth
Chair: Charlie KARLSSON, JIBS, Sweden
8:30–9:15
What explains the geography of start-up rates? — New evidence from Sweden?
Martin ANDERSSON, Blekinge Inst. Technology, Sweden, Niklas LAVESSON, Lund Univ., Sweden, and Mark PARTRIDGE, Ohio State Univ., Columbus, USA
Discussant: Sebastien BOURDIN, Ecole de Management de Normandie, France
9:15–10:00
The influence of internal and external knowledge, experiences and industry effects on retail firm failure
Pia NILSSON, Mikaela BACKMAN, and Helena NILSSON, Jönköping International Business School, Sweden
Discussant: Mehmet TOSUN, Univ. Nevada, Reno, USA
Coffee Break: 10:00–10:30
10:30–11:15
A wealth approach to building a sustainable future in energy-rich regions of Appalachia: The case of West Virginia
Hodjat GHADIMI, West Virginia Univ., Morgantown, USA
Discussant: Nyakundi MICHIEKA, California State Univ., Bakersfield, USA
11:15–12:00
Against survivorship bias: Are there lessons regional economists can learn from small and economically lagging U.S. counties?
Timothy SLAPER, Indiana Univ., Bloomington, USA
Discussant: Dao-Zhi ZENG, Tohoku Univ., Japan

Tuesday, 8:30 AM–12:00 PM
Paper Session 3C ~ Cabernet
Agriculture & Regional Development
Chair: Sandy DALL’ERBA, Univ. Illinois, Urbana-Champaign, USA
8:30–9:15
Heterogeneity of producers in Japanese regional agriculture: Using microdata
Yuko AKUNE, Nihon Univ., Japan
Discussant: Geoffrey J.D. HEWINGS, Univ. Illinois, Urbana-Champaign, USA
9:15–10:00
The sensitivity of rice yield to weather variation in Colombia: a panel data approach over 1987-2016
Karelys GUZMAN, Univ. Illinois, Urbana-Champaign, USA
Discussant: Steven G CRAIG, Univ. Houston, Texas, USA
Coffee Break: 10:00–10:30
10:30–11:15
Social network analysis on the development in social farming: A case of Garfagnana, Italy
Yaerin YOON and Kwansoo KIM, Seoul National Univ., Korea
Discussant: Folke SNICKARS, KTH Royal Inst. Technology, Sweden
11:15–12:00
The fall and rise of hops in American brewing
Neil REID, Univ. Of Toledo, Ohio, USA, Stephan GOETZ, Elizabeth DOBIS, Pennsylvania State Univ., University Park, USA, Paul GOTTLIEB, Rutgers Univ., New Brunswick, New Jersey, USA, and Anil HIRA, Simon Fraser Univ. Vancouver, British Columbia, Canada
Discussant: Peter STENBERG, USDA Economic Research Service, Washington DC, USA

Tuesday, 8:30 AM–12:00 PM
Paper Session 3D ~ Zinfandel
Spatial Statistics & GIS II
Chair: Ingmar R. PRUCHA, Univ. Maryland, College Park, USA
8:30–9:15
Fishing for neighborhood trajectory patterns in the United States - a comparison of sequence analysis methods
Wei KANG, Sergio REY, Univ. California, Riverside, USA, Levi J. WOLF, Univ. Bristol, United Kingdom, Elijah KNAAP, and Su Y. HAN, Univ. California, Riverside, USA
Discussant: James LESAGE, Texas State Univ., San Marcos, USA
9:15–10:00
Dynamics of peri-urban, the non-core areas: Along the spatial transition and multi-nuclei developments of Busan metropolitan city
Dong Hak LEE, Jinhyeok JANG, and Yeol CHOI, Pusan National Univ., Korea
Discussant: Rick CHURCH, Univ. California, Santa Barbara, USA

Coffee Break: 10:00–10:30

10:30–11:15
Inferential statistics with spatial data
Peter ROGERSON, Univ. Buffalo, New York, USA
Discussant: Henk FOLMER, Univ. Groningen, The Netherlands
11:15–12:00
Mexico’s distal effects on food insecurity: A geospatial analysis
Irene FARAH, Univ. Chicago, Illinois, USA
Discussant: Luis GALVIS, Banco de la Republica-Colombia, Colombia

Tuesday, 8:30 AM–12:00 PM
Paper Session 3E ~ Atlas Peak
Migration & Labor Market
Chair: Stein ØSTBYE, UiT The Arctic Univ. Norway, Norway
8:30–9:15
Employment patterns of migrants and residents in the Buffalo-Niagara region
Sharmistha BAGCHI-SEN, Torsten SCHUNFER, and Xiaonan TAI, Univ. Buffalo, New York, USA
Discussant: Olle WESTERLUND, Umeå Univ., Sweden
9:15–10:00
Labour mobility: The roles of intra- and interfirm migration in Canada
Mark BROWN, Statistics Canada, Ottawa, Ontario, Canada, Bruce NEWBOLD, McMaster Univ., Hamilton, Ontario, Canada, Jesse TWEEDLE, Statistics Canada, Ottawa, Ontario, Canada
Discussant: David A. PLANE, Univ. Arizona, Tucson, USA

Coffee Break: 10:00–10:30

10:30–11:15
Minimum wage competition
Koichi FUKUMURA and Atsushi YAMAGISHI, Univ. Tokyo, Japan
Discussant: Michel DIMOU, Univ. Toulon, France
11:15–12:00
Transient solutions to a two-country dynamic model considering work skills and migration
Asao ANDO, Tohoku Univ., Japan and Tomohiro YOKOYAMA, Tohoku Electric Power Co., Japan
Discussant: Sydney SCHREINER, Ohio State Univ., Columbus, USA
Tuesday, 8:30 AM–12:00 PM

**Paper Session 3F ~ Castle Peak**

**Environmental Issues I**

Chair: Janet KOHLHASE, Univ. Houston, Texas, USA

8:30–9:15

*Do factors contributing to appearance and success of conservation referenda in the West differ from those found in other regions?*

Chad CHRIESTENSON, Univ. Wisconsin, Madison, USA, and Dawn THILMANY, Colorado State Univ., Fort Collins, USA

Discussant: Quan YUAN, Univ. North Carolina, Chapel Hill, USA

9:15–10:00

*Effect of the national-level spatial distribution of cities on national transport CO2 emissions*

Jaebin LIM, Land and Housing Inst., Korea, Myounggu KANG, and Changmu JUNG, Seoul National Univ., Korea

Discussant: Makena COFFMAN, Univ. Hawaii, Manoa, USA

Coffee Break: 10:00–10:30

10:30–11:15

*Localized environmental Kuznets curves: A spatial panel analysis among US Counties*

Matt GNAGEY, Weber State Univ., Ogden, Utah, USA, and Steven DABB, Utah State Univ., Logan, USA

Discussant: Brian H.S. KIM, Seoul National Univ., Korea

11:15–12:00

*Impacts of air pollution on urban housing prices in China*

Yifu OU and Kyung-Min NAM, Univ. Hong Kong, China

Discussant: Tyler MORIN, Ohio State Univ., Columbus, USA

Tuesday, 12:15 PM–2:15 PM

**Annual Banquet Luncheon**

*Napa Valley Ballroom*

(For all registered and paid participants; tickets required)

Chair:

David A. PLANES, Univ. Arizona, Tucson, USA

Announcements:

Jaewon LIM, Univ. Nevada, Las Vegas, USA

The 3rd Springer-Verlag Prize:

Martin ANDERSSON, Blekinge Inst. Technology, Sweden,
Euijune KIM, Seoul National Univ., Korea,
Janet KOHLHASE, Univ. Houston, Texas, USA

The 33rd Charles M. Tiebout Prize:

David A. PLANES, Univ. Arizona, Tucson, USA

Presidential Address:

TBA

Genevieve GIULIANO, Univ. Southern California, Los Angeles, USA

Discussant:

TBA

Tuesday, 2:30 PM–6:00 PM

**Paper Session 4A ~ Syrah**

**Remote Regions I: Economics, Politics and Resource Development**

Chair: Chris SOUTHCOTT, Lakehead Univ., Orillia, Ontario, Canada

2:30–3:15

*The developing northern Australia agenda: A “down south” fix for the problems ‘up north’?*

Andrew TAYLOR, James THURMER, Charles Darwin Univ., Australia, Anita MAERTENS, Australia, Northern Territory Government, David KARACSONYI, Charles Darwin Univ., Australia

Discussant: Mouhcine GUETTABI, Univ. Alaska, Anchorage, USA

3:15–4:00

*The development effect of the Faro mine: Revenues, leakages, and structural change*

Lee HUSKEY, Univ. Alaska, Anchorage, USA, and Chris SOUTHCOTT, Lakehead Univ., Orillia, Canada

Discussant: Rasmus Ole RASMUSSEN, Nordic Centre for Spatial Development (NORDREGIO), Sweden

Coffee Break: 4:00–4:30
4:30–5:15
**The Strategic competitiveness of Alaska native regional corporations: The scramble for federal contract dollars**
Greg PROTASEL, Univ. Alaska, Anchorage, USA
Discussant: Thierry RODON, Université Laval, Québec City, Canada

5:15–6:00
**Contractual arrangements in remote regions: The case of coal mining**
Agnès FESTRÉ, Univ. Nice, France, Stein ØSTBYE and Jan Yngve SAND, UiT The Arctic Univ. Norway, Norway
Discussant: Matthew BERMAN, Univ. Alaska, Anchorage, USA

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**Tuesday, 2:30 PM–6:00 PM**

**Paper Session 4B ~ Merlot**

**Input-Output Analysis**
Chair: Geoffrey J.D. HEWINGS, Univ. Illinois, Urbana-Champaign, USA

2:30–3:15
**Measuring the generalized global industry relocation**
Xiang GAO, Chinese Academy of Sciences, China, Geoffrey J.D. HEWINGS, Univ. Illinois, Urbana-Champaign, USA, and Cuihong YANG, Chinese Academy of Sciences, China
Discussant: Euijun KIM, Seoul National Univ., Korea

3:15–4:00
**The socioeconomics of mining operations in Kiruna Sweden - an impact analysis of a close down**
Folke SNICKARS, KTH Royal Inst. Technology, Sweden
Discussant: Daniel LEW, NOAA Fisheries, Davis, California, USA

Coffee Break: 4:00–4:30

4:30–5:15
**Modeling the local input-output network using county-level production and consumption estimates, and national input-output table**
Yicheol HAN and Stephan GOETZ, Pennsylvania State Univ., University Park, USA
Discussant: Man-Keun KIM, Univ. of Toledo, Ohio, USA

5:15–6:00
**Key sector analysis for a subnational region with leakages**
Chang SEUNG, NOAA Fisheries, Seattle, Washington, USA
Discussant: Rafael GARDUNO-RIVERA, CIDE & Universidad Panamericana, Mexico

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**Tuesday, 2:30 PM–6:00 PM**

**Paper Session 4C ~ Cabernet**

**Transportation & Urban Forms**
Chair: Tschangho John KIM, Univ. Illinois, Urbana-Champaign, USA

2:30–3:15
**Agglomeration near and far: San Francisco and Los Angeles metropolitan areas**
Peter GORDON, Univ. Southern California, Los Angeles, USA, and John CHO, Southern California Assoc. Governments, Los Angeles, USA
Discussant: Neil REID, Univ. of Toledo, Ohio, USA

3:15–4:00
**Polycentric urban form and non-work travel in Singapore: A focus on seniors**
Yuting HOU, Singapore Univ. Technology and Design, Singapore
Discussant: Zhenhua CHEN, Ohio State Univ., Columbus, USA

Coffee Break: 4:00–4:30

4:30–5:15
**Understanding the Weber location paradigm**
Rick CHURCH, Univ. California, Santa Barbara, USA
Discussant: Qisheng PAN, Texas Southern Univ., Houston, USA

5:15–6:00
**Does ITIS affect transit ridership? Study of Dallas transit system and implications**
Art ANJOMANI and Ahmed DAQROUQ, Univ. Texas, Arlington, USA
Discussant: Dong Hak Lee, Pusan National Univ., Korea
Tuesday, 2:30 PM–6:00 PM  
**Paper Session 4D ~ Zinfandel**  
**Poverty**

Chair: Peter ROGERSON, Univ. Buffalo, New York, USA

2:30–3:15  
**Estimation of life satisfaction and development of welfare policy using panel welfare data**  
Deokho CHO, Changwhan YEO, and Yoonhee SEO, Daegu Univ., Korea  
Discussant: Karl GEISLER, Idaho State Univ., Pocatello, USA

3:15–4:00  
**Neighborhood characteristics and video gambling terminal placement and spending in Illinois**  
Ethan GRUMSTRUP and Mark NICHOLS, Univ. Nevada, Reno, USA  
Discussant: Hodjat GHADIMI, West Virginia Univ., Morgantown, USA

4:30–5:15  
**Examining the geographic aspects of the dual financial service system: Unequal access to payday lenders and banks**  
Ian DUNHAM, San Francisco State Univ., California, USA  
Discussant: So Young SOHN, Yonsei Univ., USA

5:15–6:00  
**Corporate social responsibility and poverty alleviation: A case study of Wanda Danzhai village**  
Eric J. HEIKKILA, Manita RAO, and Jingwen ZHANG, Univ. Southern California, Los Angeles, USA  
Discussant: Thomas R HARRIS, Univ. Nevada, Reno, USA

Coffee Break: 4:00–4:30

Tuesday, 2:30 PM–6:00 PM  
**Paper Session 4E ~ Atlas Peak**  
**Migration & Human Capital**

Chair: Mark BROWN, Statistics Canada, Ottawa, Canada

2:30–3:15  
**Technical migration, technology-induced demand of education, and spatial skill inequality: Evidence from U.S. urban patent counts**  
Oudom HEAN, Nattanicha CHAIRASSAMEE, and Mark PARTRIDGE, Ohio State Univ., Columbus, USA  
Discussant: Bjoern HAARSMAN, Royal Inst. Technology, Sweden

3:15–4:00  
**Local industrial cohesion and its effects on economic performance and business dynamics in US counties**  
Alexandra TSVETKOVA, OECD, Italy and Mark PARTRIDGE, Ohio State Univ., Columbus, USA  
Discussant: Asao ANDO, Tohoku Univ., Japan

4:30–5:15  
**Long-term neighborhood effects on immigrant self-employment**  
Sofia WIXE, Jönköping International Business School, Sweden  
Discussant: Min XIONG, Florida International Univ., Miami, USA

5:15–6:00  
**Innovative new firms and human capital spillovers - a microgeographic analysis**  
Discussant: Mina KIM, Bureau of Labor Statistics, Washington D.C., USA

Coffee Break: 4:00–4:30

Tuesday, 2:30 PM–6:00 PM  
**Paper Session 4F ~ Castle Peak**  
**Environmental Issues II**

Chair: Nyakundi MICHIEKA, California State Univ., Bakersfield, USA

2:30–3:15  
**Environmental justice in warehousing location across cities: Institutional perspectives**  
Quan YUAN, Univ. North Carolina, Chapel Hill, USA  
Discussant: Matt GNAGEY, Weber State Univ., Ogden, Utah, USA

3:15–4:00  
**Special analysis of social capital and community resilience for earthquake waste management**  
Kiyomi KAWAMOTO, Toyo Univ., Japan and Eric YAMASHITA, Univ. Hawaii, Manoa, USA  
Discussant: Adam ROSE, Univ. Southern California, Los Angeles, USA
4:30–5:15
Causal relationship of the particulate matter policy by system thinking of specialists opinion: Case study of Korea
HyunJi LEE, Seoul National Univ., Korea, Insu CHANG, Korea Inst. Health and Social Affairs, Korea, and Brian H.S. KIM, Seoul National Univ., Korea
   Discussant: Sandy DALL’ERBA, Univ. Illinois, Urbana-Champaign, USA
5:15–6:00
Price responsive renewable energy integration: Supporting Hawaii’s path toward 100% renewable energy
Makena COFFMAN and Sherilyn WEE, Univ. Hawaii, Manoa, USA
   Discussant: Kyung-Min NAM, Univ. Hong Kong, China

Tuesday, 6:15–7:45 PM
President’s Reception
Napa Valley Ballroom
**Wednesday, February 13**

8:00 AM–12:15 PM, **Registration** (Grand Ballroom Foyer)

8:30 AM–12:00 PM, **Concurrent Sessions:**
- **5A** Human Capital & Innovation (Syrah)
- **5B** Remote Regions II: Governance, Culture, and Community Development (Merlot)
- **5C** Disaster & Infrastructure (Cabernet)
- **5D** Real Estate & Land Policy (Zinfandel)
- **5E** Entrepreneurship & Economic Development (Stag's Leap)

10:00–10:30 AM, **Coffee Break** (Grand Ballroom Foyer)

12:00–1:30 PM, **Annals of Regional Science Editorial Board Meeting** By invitation only

12:00–1:30 PM, **Lunch Break** (On your own this day)

1:00–5:45 PM, **Registration Continues** (Grand Ballroom Foyer)

1:30–5:00 PM, **Concurrent Sessions:**
- **6A** Location and Spatial Analysis (Syrah)
- **6B** Remote Regions III: Economic Development and Regional Growth (Merlot)
- **6C** Agriculture & Sustainability – *ends at 5:45 PM* (Cabernet)
- **6D** Housing & Real Estate (Zinfandel)
- **6E** Regional Economic Development (Stag's Leap)

3:00–3:30 PM, **Coffee Break** (Grand Ballroom Foyer)

*(5:45 PM, End of Conference)*

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### Wednesday, 8:30 AM–12:00 PM

**Paper Session 5A ~ Syrah**

**Human Capital & Innovation**

Chair: Sofia WIXE, Jönköping International Business School, Sweden

8:30–9:15

*Education-occupation (mis-)match and dispersion in returns to education: Evidence from India*

Shweta GROVER and Ajay SHARMA, Indian Inst. Management Indore, India

Discussant: Nanxin DENG, Ohio State Univ., Columbus, USA

9:15–10:00

*Regional, cultural and institutional factors which affect the formation of human capital in the modern university*

Michael FARRELL, Univ. Quebec, Québec City, Canada

Discussant: Sergio CONTRERAS, Univ. Illinois, Urbana-Champaign, USA

**Coffee Break: 10:00–10:30**

10:30–11:15

*Is there positive feedback in human capital accumulation across cities? Evidence from the Mariel Boatlift*

Seung-hun CHUNG and Mark PARTRIDGE, Ohio State Univ., Columbus, USA

Discussant: Charlie KARLSSON, JIBS, Sweden

11:15–12:00

*Premium on self-employment experience for skilled and unskilled workers*

Johan KLAESSON, Johan E. EKLUND, and Emma LAPPPI, Jönköping International Business School, Sweden

Discussant: Masaki NAKABAYASHI, Univ. Tokyo, Japan

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### Wednesday, 8:30 AM–12:00 PM

**Paper Session 5B ~ Merlot**

**Remote Regions II: Governance, Culture, and Community Development**

Chair: Greg PROTASEL, Univ. Alaska, Anchorage, USA

8:30–9:15

*Adaptive capacity and resilient social-ecological systems: Theory and evidence from Alaska north slope communities*

Matthew BERMAN, Univ. Alaska, Anchorage, USA

Discussant: Andrew TAYLOR, Charles Darwin Univ., Australia
9:15–10:00
The politics of consent: Impact assessment and impact and benefit agreement in the context of Canada northern land claims settlement
Thierry RODON, Université Laval, Québec City, Canada
Discussant: Agnès FESTRÉ, Univ. Nice, France

Coffee Break: 10:00–10:30

10:30–11:15
Gender perspectives on path dependency in contemporary development in Greenland
Rasmus Ole RASMUSSEN, Nordic Centre for Spatial Development (NORDREGIO), Sweden
Discussant: Stein ØSTBYE, UiT The Arctic Univ. Norway, Norway

11:15–12:00
Pyramid schemers: The Alaskan adventures of two great American fraudsters, Charles V. Bob and W.B. Foshay
Terrence COLE, Univ. Alaska, Fairbanks, USA
Discussant: Lee HUSKEY, Univ. Alaska, Anchorage, USA

Wednesday, 8:30 AM–12:00 PM
Paper Session 5C ~ Cabernet
Disaster & Infrastructure
Chair: Kyung-Min NAM, Univ. Hong Kong, China

8:30–9:15
Impacts of severe weather events on high-speed rail and aviation delays
Zhenhua CHEN and Yuxuan WANG, Ohio State Univ., Columbus, USA
Discussant: Art ANJOMANI, Univ. Texas, Arlington, USA

9:15–10:00
Megaregion truck flow estimation model
Qisheng PAN, Bumseok CHUN, and Zhonghua JIN, Texas Southern Univ., Houston, USA
Discussant: Rick CHURCH, Univ. California, Santa Barbara, USA

10:30–11:15
A research on the area-specific environmental factors of frequent pedestrian-vehicle collision areas for senior citizens -- The case study of Seoul, Korea
Hyunsoo KIM and Yeol CHOI, Pusan National Univ., Korea
Discussant: John CARRUTHERS, George Washington Univ., Washington DC, USA

11:15–12:00
Economic consequences of the HayWired earthquake scenario
Ian SUE WING, Boston Univ., Massachusetts, USA, Dan WEI and Adam ROSE, Univ. Southern California, Los Angeles, USA
Discussant: Kiyomi KAWAMOTO, Toyo Univ., Japan

Wednesday, 8:30 AM–12:00 PM
Paper Session 5D ~ Zinfandel
Real Estate & Land Policy
Chair: Yuting HOU, Singapore Univ. Technology and Design, Singapore

8:30–9:15
Oil prices, the housing market and spillover effects: Evidence from California's central valley
Nyakundi MICHIEKA, California State Univ., Bakersfield, USA and Yiannis AMPATZIDIS, Univ. Florida, Gainesville, USA
Discussant: Seva RODNYANSKY, Univ. California, Berkeley, USA

9:15–10:00
Land value capture as a funding source for public transport: A case study of the Bangkok metropolitan region
Nij TONTISIRIN, Thammasat Univ., Thailand and Sutee ANANTSUKSOMSRI, Chulalongkorn Univ., Thailand
Discussant: Thom MALONE, Georgia Inst. Technology, Atlanta, USA

10:30–11:15
A comparison of statistical and machine learning algorithms for predicting rents in the San Francisco Bay Area
Paul WADDELL and Arezoo BESHARATI-ZADEH, Univ. California, Berkeley, USA
Discussant: JungHo PARK, Univ. Southern California, Los Angeles, USA

11:15–12:00
Ranch and county level impacts of alternative public land grazing policies in Elko County, Nevada
Thomas R HARRIS and Ethan GRUMSTRUP, Univ. Nevada, Reno, USA
Discussant: Ian DUNHAM, San Francisco State Univ., California, USA
Wednesday, 8:30 AM–12:00 PM
Paper Session 5E ~ Stag’s Leap
Entrepreneurship & Economic Development
Chair: Mehmet TOSUN, Univ. Nevada, Reno, USA

8:30–9:15
Mass entrepreneurship and innovation in China: An analysis of breadth and depth of China’s indigenous high-tech small businesses
Min XIONG and Shaoming CHENG, Florida International Univ., Miami, USA
Discussant: Eric P THOR, Arizona State Univ., Tempe, USA

9:15–10:00
The income return to entrepreneurship - theoretical models and outcomes for Swedish regions
Bjoern HAARSMAN, Royal Inst. Technology, Sweden
Discussant: Zheng TIAN, Pennsylvania State Univ., University Park, USA

Coffee Break: 10:00–10:30

10:30–11:15
Social entrepreneurship and regional economic development: Focusing on government-driven social enterprises in South Korea
Soogwan DOH, Daegu Catholic Univ., Korea, Duckhee JANG, Korea Inst. Ocean Science & Technology, Korea, and Hans WESTLUND, KTH Royal Inst. Technology, Sweden
Discussant: Martin ANDERSSON, Blekinge Inst. Technology, Sweden

11:15–12:00
Policy entrepreneurship and entrepreneurial orientation in vulnerable Swedish municipalities
Johan P. LARSSON and Lucia NALDI, Jönköping International Business School, Sweden, and Hans WESTLUND, KTH Royal Inst. Technology, Sweden
Discussant: Martin KORPI, Ratio Inst., Sweden

Wednesday, 1:30 PM–5:00 PM
Paper Session 6A ~ Syrah
Location and Spatial Analysis
Chair: Pia NILSSON, Jönköping International Business School, Sweden

1:30–2:15
EVALUATING MICROENTERPRISE DEFINITIONS TO MEASURE MICROENTERPRISE ACTIVITY IN THE US.
Sergio CONTRERAS, Univ. Illinois, Urbana-Champaign, USA
Discussant: Martin KORPI, Ratio Inst., Sweden

2:15–3:00
Are Women Earning as much as Men?: Exploring Spatial and Temporal Trend of Gender Wage Gap in Architecture, Engineering, and Construction (AEC) Industry in the United States
Saba NIKKHAH MANESH, Shrestha Kumar BINIT, Jaewon LIM, Jinouk CHOI, and Pramen SHRESTHA, Univ. Nevada, Las Vegas, USA
Discussant: Johan KLAESSON, Jönköping International Business School, Sweden

3:00–3:30
Coffee Break

3:30–4:15
Current food accessibility problems in Japan: Using a food accessibility map based on the grid-square statistics of "2015 Population Census" and "Census of Commerce"
Maria IKEGAWA, Policy Research Inst., MAFF, Japan
Discussant: Yaerin YOON, Seoul National Univ., Korea

4:15–5:00
Efficiency and equity in subnational transfers in Colombia
Luis GALVIS, Banco de la Republica-Colombia, Colombia
Discussant: Hans WESTLUND, KTH Royal Inst. Technology, Sweden

Coffee Break: 3:00–3:30

Wednesday, 1:30 PM–5:00 PM
Paper Session 6B ~ Merlot
Remote Regions III: The Changing Economic Geography of the North
Chair: Matthew BERMAN, Univ. Alaska, Anchorage, USA

1:30–2:15
A note on migration dynamics in new economic geography
Stein ØSTBYE, UiT The Arctic Univ. Norway, Norway
Discussant: Heather HUDSON, Univ. Alaska, Anchorage, USA

2:15–3:00
Broadband for remote regions: Lessons from Alaska and the Canadian North
Heather HUDSON, Univ. Alaska, Anchorage, USA
Discussant: James THURMER, Charles Darwin Univ., Australia
Local employment spillovers in resource harvest: Evidence from Alaska's commercial fisheries
Brett WATSON, Mouhcine GUETTABI, and Matthew REIMER, Univ. Alaska, Anchorage, USA
Discussant: Jan Yngve SAND, UiT The Arctic Univ. Norway, Norway

Wednesday, 1:30 PM–5:45 PM
Paper Session 6C ~ Cabernet
Agriculture & Sustainability
Chair: Makena COFFMAN, Univ. Hawaii, Manoa, USA

1:30–2:15
An analysis of climate change effects on risk and spatial distribution of rice production in South Korea
Yongjoon KIM, Kwansoo KIM, and Donghwan AN, Seoul National Univ., Korea
Discussant: Eric J. HEIKKI LA, Univ. Southern California, Los Angeles, USA

2:15–3:00
Sustainable practices diffusion in socio-ecological systems: The Gorutuba Irrigation Perimeter (Brazil) analysis
Rafael CAMPOS, Univ. Illinois, Urbana-Champaign, USA, Dénis CUNHA, Federal Univ. Viçosa, Brazil, Newton BUENO, FUCAPE Business School, Brazil
Discussant: Cameron SPEIR, NOAA Fisheries, Santa Cruz, California, USA

3:00–3:45
The trends in farm and nonfarm employment in the U.S.: A granger causality study with nonstationary panels
Zheng TIAN and Stephan GOETZ, Pennsylvania State Univ., University Park, USA
Discussant: Karelys GUZMAN, Univ. Illinois, Urbana-Champaign, USA

4:15–5:00
Estimating economic impacts of irrigation water supply policy using synthetic control regions: A comparative case study
Cameron SPEIR, NOAA Fisheries, Santa Cruz, California, USA
Discussant: Rafae CAMPOS, Univ. Illinois, Urbana-Champaign, USA

5:00–5:45
Drought, intra-national trade and agricultural profit: Evidence from the U.S. agriculture
Sandy DALL’ERBA and Zhangliang CHEN, Univ. Illinois, Urbana-Champaign, USA
Discussant: Chang SEUNG, NOAA Fisheries, Seattle, Washington, USA

Wednesday, 1:30 PM–5:00 PM
Paper Session 6D ~ Zinfandel
Housing & Real Estate
Chair: Peter GORDON, Univ. Southern California, Los Angeles, USA

1:30–2:15
Declining access to affordable low-Income housing due to middle-class competition: Evidence from US metropolitan areas, 2006 to 2016
JungHo PARK, Univ. Southern California, Los Angeles, USA
Discussant: Sutee ANANTSUKSOMSRI, Chulalongkorn Univ., Thailand

2:15–3:00
The physical legacy of racism: How redlining cemented the modern built environment
Seva RODNYANSKY, Univ. California, Berkeley, USA, Anthony W. ORLANDO, California Polytechnic State Univ., Pomona, USA, and Brian Y. AN, Univ. Southern California, Los Angeles, USA
Discussant: Arezoo BESHARATI-ZADEH, Univ. California, Berkeley, USA

3:30–4:15
Local house price diffusion during the boom, bust, and recovery: Evidence from Los Angeles
Thom MALONE, Georgia Inst. Technology, Atlanta, USA and Richard PEISER, Harvard Univ., Cambridge, Massachusetts, USA
Discussant: Yuting HOU, Singapore Univ. Technology and Design, Singapore

4:15–5:00
Parent and children homeownership: Evidence from tenure conversions in Stockholm
Ina BLIND and Matz DAHLBERG, Uppsala Univ., Sweden
Discussant: Juan Sayago SAYAGO-GOMEZ, Universidad Icesi, Mexico
1:30–2:15
**Three dimensions of outward FDI and technology innovation in home country: Evidence from China**
Qingbo CUI, Shuanglu LIANG, Ming LIU, Xincheng ZHAO, Yunnan Univ., China
   Discussant: Sofia WIXE, Jönköping International Business School, Sweden

2:15–3:00
**A blessing or a curse: The effect of city-county consolidation on local economies, evidence from China**
Nanxin DENG, Ohio State Univ., Columbus, USA, Bo FENG, Marshall Univ., Huntington, West Virginia, USA, and Mark PARTRIDGE, Ohio State Univ., Columbus, SA
   Discussant: Michael FARRELL, Univ. Quebec, Québec City, Canada

3:00–3:45
**Global supply chain conflict resolution, board senior management, and safety in expanding value chains in Western U.S. and the NAFTA regions**
Eric P. THOR, Arizona State Univ., Tempe, USA
   Discussant: Soogwan DOH, Daegu Catholic Univ., Korea

4:15–5:00
**Parallel imports in large developing countries**
Dao-Zhi ZENG, Tohoku Univ., Japan
   Discussant: Xiang GAO, Chinese Academy of Sciences, China

**End of Conference…**
Program Participants Locator

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