

Christos Nicolaides

Assistant Professor
Department of Business and Public Administration
School of Economics & Management,
University of Cyprus (UCY)

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Research group website - - - Google Scholar Profile

RESEARCH INTERESTS

I apply mathematical, statistical and computational tools to large-scale empirical and data-driven research questions with applications in identification of social influence that is mediated, amplified, or directed by interactive technologies, predicting diseases spreading, the design of optimal mitigation strategies against outbreaks and the diffusion of information, ideas and innovation through social networks.

PROFESSIONAL EXPERIENCE

Dep. of Business and Public Administration, University of Cyprus, Nicosia, Cyprus
Assistant Professor 2021 – present
Lecturer 2017 – 2021

Initiative on the Digital Economy, MIT Sloan School of Management, Cambridge, MA
Digital Fellow 2017 – present

MIT Sloan School of Management, Cambridge, MA
James S. McDonnell Postdoctoral Fellow 2014 – 2017

MIT Civil and Environmental Engineering Department, Cambridge, MA
Postdoctoral Research Associate 2014 – 2015

EDUCATION

Massachusetts Institute of Technology, Cambridge, MA
PhD in Civil and Environmental Engineering 2014
SM in Civil and Environmental Engineering 2011

Imperial College London, London, UK
MSc in Applied Mathematics (Distinction) 2009

Aristotle University, Thessaloniki, GR
BSc in Physics (Distinction – highest GPA in department’s history 9.88/10) 2008

RESEARCH GRANTS

SEED Grant, Research & Innovation Foundation, Cyprus, *COMPLEXION: Mitigating Complexity In the Construction Industry*, **€100,000** (total €499,999) (UCY Coordinator, 06/2021 Expected - 06/2023)

ONISILOS Research Grant, University of Cyprus, *HandWASH: Hand-Washing interventions Against epidemic Spreading through Human mobility networks*, **€70,000** (PI, 09/2020 Expected - 09/2022)

DIDACTOR Research Grant, Research & Innovation Foundation, Cyprus, *SUCCESSNet: The impact of Social Network Presence on Success*, **€120,000** (PI, 09/2019 - 09/2021)

Internal Research Grant, University of Cyprus, *WoMConRev : The impact of Word-of-Mouth Consensus on Initial Sales: The case of Movie Trailer Reviews and Opening Box Office Revenue*, **€40,000** (PI, 07/2019 - 07/2021)

Marie Curie ITN, European Commission, *RAIS: Real Time Analytics for the Internet of Sports*, **€235,000** (total €3,612,494) (Partner, 03/2019 - 03/2023)

Cyprus Ministry of Health, *Patient Satisfaction and Personnel Engagement before and after Cyprus National Health System*, **€100,000** (Co-PI, 10/2018 - 06/2020)

Postdoctoral Fellow grant, University of Cyprus, *SELFIEGION: Selfie Contagion in Social Networks and its impact in digital marketing*, **€22,300** (PI, 09/2018 - 08/2019)

SMIXIN Inc., *Clean-Tech Handwashing: behavioral changes and mitigation Strategies against the global spread of infectious diseases*, €50,000 (PI, 04/2018 - 04/2019)

Marie Curie IF, European Commission, *NISIHealth: Digital Nudges, Incentives and Social Influence in Habit Formation of Global Health behaviour*, €163,000 (01/2019 - 01/2022)

University of Cyprus Starting Grant, *Habit Formation in Exercise*, €50,000 (PI, 01/2018-12/2019)

HONORS AND AWARDS

Award for Best Paper Published in Risk Analysis in 2020, *Risk Analysis Society*, November 24, 2020

Named as "Professor of The Week" by *Poets & Quants*, March 6, 2020

Doctoral Thesis Achievement Award, The Circle of Hellenic Academics in Boston, 2016 – \$1,000

James S. McDonnell Foundation Postdoctoral Fellowship, 2014-2016 – \$200,000

George and Marie Vergottis MIT Fellowship, 2009-2010, 2011-2012, 2013-2014 –\$240,000

MIT Research Assistantship, 2010-2011, 2012-2013 –\$160,000

Graduate studies fellowship, Cyprus National Studentship Institution, 2009-2012 – \$37,000

Makarios/Theodore and Wally Lappas Award, 2010 – \$5,000

Panpaphian Association of America Award, 2009 – \$2,000

Master Degree fellowship, Cyprus National Studentship Institution, 2008-2009 – \$8,000

Fullbright Scholarship for Master Degree in US, 2008 (gratefully declined)

Award for the highest GPA in the Physics Department (9.88/10), University of Thessaloniki, 2008

Undergraduate Scholarship from the Greek National Studentship Institution, 2004-2008 – \$18,000

SELECTED JOURNAL PUBLICATIONS

1. S. Aral* and C. Nicolaides*, Exercise contagion in a global social network, *Nature Communications* **8**, 14753, doi:10.1038/ncomms14753 (2017). *authors listed in alphabetical order. **(Highly Cited Paper by the Web of Science)**

Selected Press Coverage: New York Times; Los Angeles Times; NBC News; Nature; Science Magazine; Science News; New York Magazine; New York Daily News; Metro (UK); Vice; Daily Mail (UK); EL Pais (Spain); Scientific American; University of Cyprus News Office.

2. S. Benzell*, A. Collis*, and C. Nicolaides*, Rationing Social Contact During the COVID-19 Pandemic: Transmission Risk and Social Benefits of US Locations, *Proceedings of the National Academy of Sciences U.S.A.* **117**(26) p.14642-14644 (2020), doi:10.1073/pnas.2008025117. *Authors listed in alphabetical order. **(Highly Cited Paper by the Web of Science)**

Selected Press Coverage: CNN, The New York Times (1, 2), The Wall Street Journal, Financial Times, Business Insider, Fox 4 (Interview 1, Interview 2), Fox 7, Austin American-Statesman, Forbes, Bloomberg, NPR, Marketplace, Yahoo, Fast Company, The Times of India, MIT Technology Review, Phys.org, Marker, Marginal Revolution, KVIA, LAist, Brookings, Spektrum.de, Patch, The Tyee, Lega Nerd, Best Life, San Diego Metro, Security Magazine, Newsmax, MIT News, MIT Sloan, MIT IDE Blog, UT McCombs.

3. C. Nicolaides, D. Avraam, L. Cueto-Felgueroso, M. C. González, and R. Juanes, Hand-Hygiene Mitigation Strategies Against the Spread of Infectious Diseases through the Air Transportation Network, *Risk Analysis* **40**(4) 723-740 (2020), doi:10.1111/risa.13438. **(Best Paper Award by the Risk Analysis Society 2020)**

Selected Press Coverage: MIT News, MIT Sloan News (cover), Society of Risk Analysis (press release), World Economic Forum, CNBC, USA Today, Voice of America (Vid), The Atlantic, The Washington Times, CBS Boston (video), Business Insider, STAT, CATO Institute, The Telegraph (UK), The Independent (UK), Metro (UK), Express (UK), Daily Mail (UK), Medical XPress, MedicalNews Today, Times of India, Focus (Italy), WIRED (Italy), Consumer Affairs, Deutsches Arzteblatt (Germany), El Agora (Spain), El Confidencial (Spain).

4. S. Benzell*, A. Collis*, and C. Nicolaides*, Boosting Business Value by Reducing COVID-19 Transmission Risk, *MIT Sloan Management Review*, **62**(1), p.1-6 (2020) <https://mitsmr.com/3jA7XsQ> *Authors listed in alphabetical order.

5. D. Holtz, M. Zhao, S. G. Benzell, C. Y. Cao, M. A. Rahimian, J. Yang, J. Allen, A. Collis, A. Moehring, T. Sowrirajan, D. Ghosh, Y. Zhang, P. S. Dhillon, C. Nicolaides, D. Eckles, and S. Aral, Interdependence and the Cost of Uncoordinated Responses to COVID-19, *Proceedings of the National Academy of Sciences U.S.A.* **117**(33) p.19837-19843 (2020) doi.org/10.1073/pnas.2009522117.

Selected Press Coverage: The Boston Globe, LA Times (op-ed), The Washington Post, MSNBC, Yahoo Finance, WGBH (Boston), The Hill (op-ed), MIT Sloan, TechRepublic, Miami Herald.

6. S. G. Benzell*, A. Collis*, & C. Nicolaides*, The Efficiency of US Public Space Utilization During the COVID-19 Pandemic, *Risk Analysis*, doi: 10.1111/risa.13800 (2021). *Authors listed in alphabetical order.

1. A. Photiou, C. Nicolaidis, P. Dhillon Social Status and Novelty Drove the Spread of Online Information During the Early Stages of COVID-19, *Scientific Reports*, in press.
2. A. DiBattista, C. Nicolaidis, & O. Georgiou, Modelling disease transmission from touchscreen user interfaces, *Royal Society Open Science* **8**, 210625 (2021) *News Coverage: Cosmos Magazine, Phileleftheros, CYBC News appearance.
3. M. Santolini, C. Ellinas, and C. Nicolaidis, Uncovering the fragility of large-scale engineering projects, *EPJ Data Science* **10**, 36 (2021).
4. P. Konstantinou, K. Georgiou, N. Kumar, M. Kyprianidou, C. Nicolaidis, M. Karekla and A. P. Kassianos. Transmission of vaccination attitudes and uptake based on Social Contagion Theory: A scoping review. *Vaccines* **9**, 607 (2021).
5. C. Ellinas, C. Nicolaidis, N. Masuda. Mitigation Strategies against Cascading Failures within a Project Activity Network. *Journal of Computational Social Sciences*, <https://doi.org/10.1007/s42001-021-00123-x> (2021)
6. S. Agapiou*, A. Anastasiou*, A. Baxevani*, C. Nicolaidis*, G. Hadjigeorgiou, T. Christofides, E. Constantinou, G. Nikolopoulos, and K. Fokianos, Modeling the First Wave of Covid-19 Pandemic in the Republic of Cyprus. *Scientific Reports*, **11**, 7342 (2021) *Authors listed in alphabetical order.
7. D. Avraam, R. Wilson, O. Butters, T. Burton, C. Nicolaidis, E. Jones, A. Boyd, and P. Burton. Privacy Preserving Data Visualizations. *EPJ Data Science* **10** (2021)
8. I. Televantou, H. W. Marsh, T. Dicke, and C. Nicolaidis, Phantom and big-fish-little-pond-effects on academic self-concept and academic achievement: Evidence from English early primary schools, *Learning & Instruction*, **71**, 101399 (2021)
9. M.-Y. Kang, G. Berthelot, L. Tupikina, C. Nicolaidis, J.-F. Colonna, B. Sapoval, and D. S. Grebenkov, Morphological organization of point-to-point transport in complex networks. *Scientific Reports* **9**, 8322 (2019), doi:10.1038/s41598-019-44701-6.
10. C. Nicolaidis, R. Juanes, and L. Cueto-Felgueroso, Self-organization of network dynamics into local quantized states, *Scientific Reports* **6**, 21360, doi:10.1038/srep21360 (2016).
11. C. Nicolaidis, B. Jha, L. Cueto-Felgueroso, and R. Juanes. Interplay between viscous-fingering and permeability heterogeneity in the prediction of mixing in porous media flows, *Water Resources Research* **51**, doi:10.1002/2014WR015811 (2015).
12. C. Nicolaidis, L. Cueto-Felgueroso, and R. Juanes. The price of anarchy in mobility-driven contagion dynamics, *Journal of the Royal Society Interface* **10**(87), 20130495 (2013).

Selected Press Coverage: MIT Homepage Spotlight; MIT News; NPR; Fox News; LiveScience

13. C. Nicolaidis, L. Cueto-Felgueroso, M. C. González, and R. Juanes. A metric of influential spreading during contagion dynamics through the air transportation network, *PLoS ONE* **7**(7), e40961 (2012).

Selected Press Coverage: MIT Homepage Spotlight; MIT News; Science News; Nature Medicine; NPR; LA Times; Scientific American; Discovery Channel; The Atlantic; NY Daily News; USA Today; CNN; ABC News; Huffington Post; Time Magazine; CBS news; Fox News; Huffington Post; US News; The Guardian (US); Daily Mail (UK); Time Magazine; Wired Magazine; NASDAQ; Smart Planet; International Business Times.

14. C. Nicolaidis, L. Cueto-Felgueroso, and R. Juanes. Anomalous Physical Transport in Complex Networks, *Physical Review E* **82**(5), 055101(R) (2010).

Collective Attention Politicization of Information: Evidence from News articles on Climate Change (with A. Samantray, C. Makridis) *under review*

Can Information Technology Save Lives During a Pandemic (with S. G. Benzell, A. Collis, I. Bardhan) *Submitted for Publication*

Social Influence and Habits in Exercise: A Field Experiment. (with Dean Eckles). To be submitted 2021.

SELECTED
COVERAGE
OF MY RESEARCH Grocery stores and universities should reopen first, new research suggests
by Jen Christensen
CNN, June 11, 2020

The Economic And Health Trade-Offs Of Reopening The Economy
by Adi Gaskell
Forbes, June 23, 2020

Which businesses should be open?
by Adi Gaskell
MIT News, June 11, 2020

What should reopen first? Data shows the way.
by Sara Brown
MIT Sloan School of Management – cover story, May 19, 2020

MIT's Nicolaides: Stop Coronavirus By Washing Your Hands – At The Airport
by Howard R. Gold
Poets & Quants, March 6, 2020

How to curb a pandemic: Wash your hands at the airport
by Sara Brown
MIT Sloan School of Management – cover story, March 2, 2020

To slow an epidemic, focus on handwashing
by David L. Chandler
MIT News, February 6, 2020

Running May Be Socially Contagious
by Gretchen Reynolds
The New York Times, Apr 17, 2017

Exercise can be contagious, new social network analysis finds
by Amina Khan
Los Angeles Times, Apr 18, 2017

Sharing Workout Results With Your Friends Pushes You to Exercise Even Harder
by Lisa Ryan
New York Magazine, Apr 18, 2017

Running is contagious among those with the competitive bug
by Bethany Brookshire
Science News, May 26, 2017

Controlling contagion by restricting mobility
by Denise Brehm
MIT News, Jul 30, 2013

New model of disease contagion ranks U.S. airports in terms of their spreading influence
by Denise Brehm
MIT News, Jul 23, 2012

Researchers list top 10 airports for spreading disease
by the CNN Wire Staff
CNN, Jul 24, 2012

Top airports for spreading germs ID'd
by Rachel Ehrenberg
Science News, Jul 27, 2012

SUPERVISION
Julia Kapani (Postdoc) “Pre-release buzz in social media” Nov 2020 - present
John Hatem (Marie Curie Early Career Scientist/) “Habit formation in Exercise” Nov 2019 - Aug 2021
Kyriakos Vitalis (Postdoc) “The impact of Social Network Presence on Success” Sep 2018 - Sep 2021
Demetris Avraam (Postdoc) “Interventions during epidemic spreading in networks” Apr 2018 - Jun 2020
Ioulia Televantou (Postdoc) “Designing of interventions to promote healthy behavior” Jun 2018 - Jun 2019

REVIEWER FOR SCIENTIFIC JOURNALS Proceedings of the National Academy of Sciences (PNAS), Nature Communications, Management Science, Journal of the Royal Society Interface, PeerJ, Scientific Reports, BMC Infectious Diseases, PLoS ONE, Applied Network Science, Learning and Individual Differences, Financial Innovation, Computational Intelligence and Neuroscience, Operation Management Research, SN Applied Science, Israel Science Foundation

EDITORIAL SERVICES International Conference in Information Systems (ICIS 2017, 2018) Proceedings
Mediterranean Conference in Information Systems (MCIS 2017, 2018) Proceedings

INVITED TALKS Social Influence and Habits in Exercise: A Field Experiment.
Management Science and Operations, London Business School, London, UK February 06, 2020;
CRI Research Center Paris, France, February 3, 2020.
Is Exercise Contagious? Peer Effects in a Global Health Behavior.
Emerging Media Studies, Boston University, Boston, USA February 21, 2017; **Network Science Institute, Northeastern University**, Boston USA February 15, 2017; **IESE Business School, University of Navarra**, Barcelona, Spain January 31, 2017; **Rotterdam School of Management, Erasmus University**, Rotterdam, NL January 10, 2017; **UCL School of Management**, London, UK December 7, 2016; **IE Business School**, Madrid, Spain November 29, 2016; **Dept. of Management and Technology, EPFL**, Lausanne, Switzerland October 31, 2016; **Initiative of Digital Economy MIT**, Cambridge MA, October 12, 2016; **University of Cyprus Business School**, September 24, 2016, Nicosia, Cyprus; **MODUL Business School**, Vienna, Austria, August 09, 2016.

OTHER CONFERENCE CONTRIBUTIONS Y. Yuan, C. Nicolaides, D. Eckles, and A. Pentland. Who Motivate More Workouts: Friends or Strangers? *Oral Presentation*, IC2C2 2020, July 14-16, 2020, Cambridge MA, USA
C. Nicolaides, and D. Eckles. Optimizing Social Influence Notification policy in Exercise: A Field Experiment *Oral Presentation*, IC2C2 2020, July 14-16, 2020, Cambridge MA, USA
C. Nicolaides, and D. Eckles. Social Influence and Habits in Exercise: A Field Experiment. *Oral Presentation*, Conference in Digital Experimentation (CODE2019), November 02-03, 2019, Cambridge MA, USA.
C. Nicolaides, and D. Eckles. Social Influence and Habits in Exercise: A Field Experiment . *Oral Presentation*, IC2C2 2019, July 13-15, 2019, Amsterdam, NL.
C. Nicolaides, and D. Eckles. Social Influence and Habits in Exercise: A Field Experiment . *Oral Presentation*, Workshop on Advancements in Field Experiments (AFE 2018), October 05-07, 2018, Boston MA, USA.
C. Nicolaides, and S. Aral . Social Contagion in a Global Exercise Network. *Oral Presentation*, Workshop on Information Systems and Economics (WISE 2016), December 14-16, 2016, Dublin, Ireland (**Nominee for Best Paper Award**).
C. Nicolaides, D. Eckles and S. Aral. Changing Circumstances and the Disruption of Habits in Exercise *Invited Talk*, INFORMS Annual Meeting, November 13-16, 2016, Nashville TN, USA
C. Nicolaides, D. Eckles and S. Aral. Changing Circumstances and the Disruption of Habits in News Readership *Poster Presentation*, Conference on Digital Experimentation (CODE16), October 14-15, 2016, MIT, Cambridge MA, USA
C. Nicolaides, and S. Aral. Is Exercise Contagious? Peer Effects in a Global Health Behavior. *Invited Talk*, INFORMS Annual Meeting, November 1-3, 2015, Philadelphia PA, USA
C. Nicolaides, and S. Aral . Is Exercise Contagious? Evidence from a Global Natural Experiment. *Oral Presentation*, Conference on Digital Experimentation (CODE15), October 16-17, 2015, MIT, Cambridge MA, USA
C. Nicolaides, and S. Aral . Is Exercise Contagious? Evidence from a Global Natural Experiment. *Oral Presentation*, Workshop on Information Networks (WIN15), October 1-2, 2015, New York University, New York NY, USA
C. Nicolaides, R. Juanes and L. Cueto-Felgueroso. Self-organization of network dynamics into local quantized states. *Oral Presentation*, Conference on Complex Systems, September 23-27, 2015, Tempe AR, USA

C. Nicolaides, L. Cueto-Felgueroso, and R. Juanes. Interplay between viscous-fingering and permeability heterogeneity in the prediction of mixing in porous media flows. *Poster Presentation*, AGU Fall Meeting, December 8-13, 2013, San Francisco CA, USA

C. Nicolaides, L. Cueto-Felgueroso, and R. Juanes. Activator-inhibitor systems on heterogeneous ecological networks *Poster Presentation*, AGU Fall Meeting, December 2-7, 2012, San Francisco CA, USA

C. Nicolaides, L. Cueto-Felgueroso, and R. Juanes. Coupled contagion-policy spreading and the price of anarchy in networks *Oral Presentation*, NetSci2012, June 3-7, 2012, Chicago IL, USA

C. Nicolaides, P. K. Kang, L. Cueto-Felgueroso, M. Dentz, and R. Juanes. Scaling of reactive transport in fracture networks: a fermionic network approach *Oral Presentation*, CMWR2012, June 2012, Urbana IL, USA

C. Nicolaides, P. K. Kang, L. Cueto-Felgueroso, M. Dentz, and R. Juanes. Disease Spreading in Lattice Networks With Traffic Heterogeneity. *Poster Presentation*, AGU Fall Meeting, December 4-7, 2011, San Francisco CA, USA

C. Nicolaides, L. Cueto-Felgueroso, M. C. González, and R. Juanes. Spreading and Contact Dynamics in Metapopulation Networks: A Stochastic Agent Model of Disease Spreading in the Air Transportation Network. *Oral Presentation*, NetSci2011, June 4-8, 2011, Budapest, HU

C. Nicolaides, L. Cueto-Felgueroso, R. Juanes. Anomalous Transport in Complex Networks Under A Driving Force. *Poster Presentation*, AGU Fall Meeting, December 14-17, 2010, San Francisco CA, USA

C. Nicolaides, L. Cueto-Felgueroso, R. Juanes. Anomalous Physical Transport in Complex Networks. *Poster Presentation*, Gordon Conference on Flow and Transport in Permeable Media, July 14-17, 2010, ME, USA

C. Nicolaides, L. Cueto-Felgueroso, R. Juanes. Anomalous Physical Transport in Complex Networks. *Oral Presentation*, International Conference on Network Science (NetSci2010), May 10-14, 2010, Boston MA, USA

TEACHING
EXPERIENCE

London Business School, London, UK

C170: Data Analytics for Managers

Fall 2021

Develop and deliver lectures about Data Analytics for Managers for 250 MBA Students at London Business School.

AM11: Machine Learning for Big Data

Winter 2020, 2021

Develop and deliver lectures about machine learning for big data to 80 graduate level students registered at the Master in Analytics and Management (MAM) at London Business School.

University of Cyprus, Nicosia, Cyprus

BPA444: Social Networks in Enterprises

Spring 2019, Spring 2020, Spring 2021

Develop and deliver lectures about Social Network analysis and modeling to undergraduate students registered for the degree of Business and Public Administration and Finance at University of Cyprus.

BPA346: Quantitative Methods in Management II

Spring 2018, 2019, 2020, Fall 2018, 2019, 2021

Develop and deliver lectures about linear regression, logistic regression and predictive modeling to undergraduate students registered for the degree of Business and Public Administration and Finance at University of Cyprus.

BPA241: Introduction in Operation Management

Fall 2017, 2018, 2019 & 2021

Develop and deliver lectures about optimization methods and data analytics to undergraduate students registered for the degree of Business and Public Administration at University of Cyprus.

Open University of Cyprus, Nicosia, Cyprus

PDE253: Management Information Systems

Spring 2018

Develop and deliver online lectures about linear optimization methods with applications in management to undergraduate students registered for the degree of Business Administration at the Open University of Cyprus.

PDE203: Management Information Systems

Fall 2017, Fall 2018

Develop and deliver online lectures about Management Information Systems to 35 undergraduate students registered for the degree of Business Administration at the Open University of Cyprus.

Massachusetts Institute of Technology, Cambridge, MA

Teaching Assistant

Spring 2013

Lectured recitations, conducted office hours and graded weekly assignments for over 20 graduate students in the course, Computation Methods for Flow in Porous Media.

Instructors: Ruben Juanes, Luis Cueto-Felgueroso. Evaluation score: 6.7/7.

Teaching Assistant

Fall 2011

Lectured recitations, conducted office hours and graded weekly assignments for over 10 graduate students in the course, Computer Modeling: From Human Mobility to Transportation Networks.

Instructor: Marta C. González

CONSULTING
SERVICES

Exxon Mobil Corporation, Houston, TX

The Internet of Things in Oil and Gas Industry: Opportunities and Challenges. Feb 2013 – May 2013

OTHER SERVICES

April/May 2020: Serving as a member of the UCY's infectious diseases modeling team advising the Ministry of Health on issues related to the COVID-19 pandemic.

MANAGEMENT/
ADMINISTRATIVE
SKILLS

Devise the Network Speed-Dating Application to map in real time research connections between participants of a conference or workshop. First launched in the Civil and Environmental Engineering Research Speed-Dating event on February 7, 2014. The application was featured at MIT News:

<http://web.mit.edu/newsoffice/2014/cee-research-speed-dating-identifies-new-synergies-among-faculty-and-students.html>

MEMBERSHIPS

Institute for Operations Research and the Management Sciences (INFORMS); Association for Information Systems (AIS); American Physical Society (APS), MIT Energy Club, International Society of Network Science.

SKILLS

Programming Languages: MATLAB; Python; Java; Mathematica; C++

Statistical Tools: STATA, R

Data visualizations: Processing; Cytoscape; D3 Library in Javascript

Text Editing: L^AT_EX, MS Word