NetMob 2013 // Special session on the D4D challenge

Third International Conference on the Analysis of Mobile Phone Datasets
With a special day on the Data for Development (D4D) challenge

Preliminary program
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MIT (Cambridge, MA)
May 1-3, 2013

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Cezary ZIEMLICKI, Orange Labs
Wednesday May 1, 2013  
A data for development day

8:30-8:50  REGISTRATION
8:50-9:00  WELCOME  
  Vincent Blondel (chairman of D4D and NetMob)  
  Nicolas de Cordes (Orange)
9:00-10:15 SESSION 1 // Mobility
10:15-11:00 COFFEE BREAK AND POSTER SESSION
11:00-12:15 SESSION 2 // Transportation
12:15-13:30 LIGHT LUNCH
13:30-14:00 KEYNOTE TALK  
  Robert KIRKPATRICK, Head of Global Pulse, United Nations
14:00-15:30 SESSION 3 // Social and economic development
15:30-16:15 COFFEE BREAK AND POSTER SESSION
16:15-17:15 SESSION 4 // Health
17:15-17:45 PANEL DISCUSSION: WHAT NEXT?
17:45-18:00 AWARD CEREMONY

Thursday May 2, 2013  
NetMob

8:45-9:00  REGISTRATION
9:00-10:00 SESSION 5 // Mobility patterns
10:00-10:15 POSTER FLASH SESSION 1 // Mobility
10:15-11:00 COFFEE BREAK AND POSTER SESSION
11:00-12:00 SESSION 6 // Mobility modeling
12:00-13:30 LUNCH
13:30-14:00 KEYNOTE TALK  
  William HOFFMAN, Head of Telecom Industry, World Economic Forum
14:00-15:15 SESSION 7 // Trajectories and regularities
15:15-15:30 POSTER FLASH SESSION 2 // Network
15:30-16:15 COFFEE BREAK AND POSTER SESSION
16:15-17:30 SESSION 8 // Social data collection

Friday May 3, 2013  

9:30-10:45  SESSION 9 // Social structure
10:45-11:15 COFFEE BREAK
11:15-12:00 SESSION 10 // Privacy
12:00-13:30 LUNCH
13:30-14:00 KEYNOTE TALK  
  Samuel MADEN, Head of bigdata, MIT
14:00-15:00 SESSION 11 // Information propagation
A data for development day
Orange challenge

► 8:30-8:50 REGISTRATION

► 8:50-9:00 WELCOME

Vincent BLONDEL (chairman of D4D)
Nicolas de CORDES (Orange)

► 9:00-10:15 SESSION 1 // Mobility

1. THE DIFFERING TRIBAL AND INFRASTRUCTURAL INFLUENCES ON MOBILITY IN DEVELOPING AND INDUSTRIALIZED REGIONS
   Alexander AMINI (SENSEable City Lab, MIT)
   Kevin KUNG (SENSEable City Lab, MIT)
   Chaogui KANG (SENSEable City Lab, MIT)
   Stanislav SOBOLEVSKY (SENSEable City Lab, MIT)
   Carlo RATTI (SENSEable City Lab, MIT)

2. APPROACHING THE LIMITS OF PREDICTABILITY IN HUMAN MOBILITY: A STUDY OF 500,000 MOBILE PHONE USERS IN COTE D’IVOIRE AFTER THE 2011 CIVIL WAR
   Xin LU (Karolinska Institute)
   Erik WETTER (Flowminder Foundation, Stockholm, Sweden)
   Nita BHARTI (Penn State University)
   Andy TATEM (University of Southampton)
   Linus BENGTSSON (Flowminder Foundation, Stockholm, Sweden)

3. IDENTIFICATION AND CHARACTERIZATION OF HUMAN BEHAVIOR PATTERNS FROM MOBILE PHONE DATA
   Pavlos PARASKEVOPOULOS (University of Trento)
   Thanh-Cong DINH (University of Trento)
   Zolzaya DASHDORJ (University of Trento)
   Themis PALPANAS (University of Trento)
   Luciano SERAFINI (Fondazione Bruno Kessler)

4. COMMUNICATION FLOW PATTERNS IN THE D4D DATASET
   Paul SCHMITT (University of California Santa Barbara)
   Morgan VIGIL (University of California Santa Barbara)
   Mariya ZHELEVA (University of California Santa Barbara)
   Elisabeth M. BELDING (University of California Santa Barbara)
5. MULTI-PERSPECTIVE ANALYSIS OF D4D FINE RESOLUTION DATA
Gennady ANDRIENKO (Fraunhofer Institute I AIS)
Natalia ANDRIENKO (Fraunhofer Institute I AIS)
Georg FUCHS (Fraunhofer Institute I AIS)

► 10:15-11:00 COFFEE BREAK AND POSTER SESSION

► 11:00-12:15 SESSION 2 // Transportation

1. ALLABOARD : A SYSTEM FOR EXPLORING URBAN MOBILITY AND OPTIMIZING PUBLIC TRANSPORT USING CELLPHONE DATA
Michele BERLINGERIO (IBM Research Dublin)
Francesco CALABRESE (IBM Research Dublin)
Giusy DI LORENZO (IBM Research Dublin)
Rahul NAIR (IBM Research Dublin)
Fabio PINELLI (IBM Research Dublin)
Marco Luca SBODIO (IBM Research Dublin)

2. MOBILITY MODELING FOR TRANSPORT EFFICIENCY
Vangelis ANGELAKIS (Linköping University)
David GUNDLEGÅRD (Linköping University)
Botond RAJNA (Linköping University)
Clas RYDERGREN (Linköping University)
Katerina VROTSOU (Linköping University)
Richard CARLSSON (Ericsson Research, Services & Software)
Julien FORGEAT (Ericsson Research, Services & Software)
Tracy H. HU (Ericsson Research, Services & Software)
Evan L. LIU (Ericsson Research, Services & Software)
Simon MORITZ (Ericsson Research, Services & Software)
Sky ZHAO (Ericsson Research, Services & Software)
Yaotian ZHENG (Ericsson Research, Services & Software)

3. MP4-A PROJECT : MOBILITY PLANNING FOR AFRICA
Mirco NANNI (KDD Lab, Isti – CNR)
Roberto TRASARTI (KDD Lab, Isti – CNR)
Barbara FURLETTI (KDD Lab, Isti – CNR)
Lorenzo GABRIELLI (KDD Lab, Isti – CNR)
Peter VAN DER MEDE (Goudappel Groep)
Joost DE BRUIJN (Goudappel Groep)
Erik DE ROMPH (Goudappel Groep)
Gerard BRUIL (Goudappel Groep)
4. CROWDSOURCING PHYSICAL PACKAGE DELIVERY USING THE EXISTING ROUTINE MOBILITY OF A LOCAL POPULATION
   James McInerney (University of Southampton)
   Alex Rogers (University of Southampton)
   Nicholas R. Jennings (University of Southampton)

5. TOWARDS A RECOMMENDER SYSTEM FOR BUSH TAXIS,
   Sébastien Gambs (Université de Rennes 1 - INRIA/IRISA)
   Marc-Olivier Kilijian (CNRS ; LAAS)
   Miguel Núñez del Prado Cortez (CNRS ; LAAS)
   Moussa Traoré (CNRS ; LAAS)

► 12:15-13:30 LIGHT LUNCH

► 13:30-14:00 KEYNOTE TALK
   Robert Kirkpatrick, Head of Global Pulse, United Nations

► 14:00-15:30 SESSION 3 // Social and economic Development

1. MOBILE COMMUNICATIONS REVEAL THE REGIONAL ECONOMY IN CÔTE D’IVOIRE
   Huina Mao (Indiana University)
   Xin Shuai (Indiana University)
   Yong-Yeol Ahn (Indiana University)
   Johan Bollen (Indiana University)

2. UBIQUITOUS SENSING FOR MAPPING POVERTY IN DEVELOPING COUNTRIES
   Christopher Smith (ICRI : Cities)
   Afra Mashadi (Bell Labs, Alcatel-Lucent)
   Licia Capra (University College London)

3. ANALYZING SOCIAL DIVISIONS USING CELL PHONE DATA
   Orest Bucicovschi (University of California San Diego)
   Rex W. Douglass (University of California San Diego)
   David A. Meyer (University of California San Diego)
   Megha Ram (University of California San Diego)
   David Rideout (University of California San Diego)
   Dongjin Song (University of California San Diego)
4. DEVELOPMENT, INFORMATION AND SOCIAL CONNECTIVITY IN COTE D’IVOIRE
Clio ANDRIS (Santa Fe Institute)
Luis M. A. BETTENCOURT (Santa Fe Institute)

5. CAN FIRES, NIGHT LIGHTS AND MOBILE PHONES REVEAL BEHAVIORAL FINGERPRINTS USEFUL FOR DEVELOPMENT?
David PASTOR-ESCUREDO (Universidad Politécnica de Madrid)
Thierry SAVY (ISC-PIF, Paris)
Miguel A. LUENGO-OROZ (Universidad Politécnica de Madrid)

► 15:30-16:15 COFFEE BREAK AND POSTER SESSION

► 16:15-17:15 SESSION 4 // Health

1. MITIGATING EPIDEMICS THROUGH MOBILE MICRO-MEASURES
Mohamed KAFSI (Ecole Polytechnique Fédérale de Lausanne)
Ehsan KAZEMI (Ecole Polytechnique Fédérale de Lausanne)
Lucas MAYSTRE (Ecole Polytechnique Fédérale de Lausanne)
Lyudmila YARTSEVA (Ecole Polytechnique Fédérale de Lausanne)

2. CELL PHONE MOBILITY AND EPIDEMIC SPREAD IN THE IVORY COAST
Duygu BALCAN (Institute for Scientific Interchange)
Bruno GONÇALVES (Aix Marseille Université)

3. EXPLOITING CELLULAR DATA FOR DISEASE CONTAINMENT AND INFORMATION CAMPAIGNS STRATEGIES IN COUNTRY-WIDE EPIDEMICS
A. LIMA (University of Birmingham)
M. DE DOMENICO (University of Birmingham)
V. PEJOVIC (University of Birmingham)
M. MUSOLESI (University of Birmingham)

4. LINKING THE HUMAN MOBILITY AND CONNECTIVITY PATTERNS WITH SPATIAL HIV DISTRIBUTION
Katarina GAVRIC (UNS, Serbia)
Sanja BRĐAR (UNS, Serbia)
Dubravko CULIBRK (UNS, Serbia)
Vladimir CRNOJEVIC (UNS, Serbia)
17:15-17:45 PANEL DISCUSSION // What next?
Nicolas de CORDES, Orange
Robert KIRCKPATRICK, Global Pulse, United Nations
Sandy PENTLAND, MIT
Guillaume JOSSE, Groupe 8, France
Francis AKINDES, Bouaké, Ivory Coast
Moderated by Vincent BLONDEL, chairman of D4D

17:45-18:00 AWARD CEREMONY
Best overall
Best scientific
Best development
Best visualization
1. FREQUENCIES, TEMPORAL PATTERNS, AND SPATIAL REGULARITY OF MOBILE-PHONE DATA
   Philipp HÖVEL (Northeastern University, Technische Universität Berlin, Humboldt-Universität),
   Filippo SIMINI (Northeastern University, Università di Padova, Budapest University of Technology and Economics),
   Chaoming SONG (Northeastern University, Dana-Farber Cancer Institute),
   Albert-László BARABÁSI (Northeastern University, Dana-Farber Cancer Institute, Harvard Medical School)

2. DISCOVERING URBAN AND COUNTRY DYNAMICS FROM MOBILE PHONE DATA WITH SPATIAL CORRELATION PATTERNS
   Roberto TRASARTI (Instituto di Scienza e Tecnologie dell'Informazione),
   Ana-Maria OLTEANU-RAIMOND (Orange Labs),
   Mirco NANNI (Instituto di Scienza e Tecnologie dell'Informazione),
   Thomas COURONNÉ (Orange Labs),
   Barbara FURLETTI (Instituto di Scienza e Tecnologie dell'Informazione),
   Fosca GIANNOTTI (Instituto di Scienza e Tecnologie dell'Informazione),
   Zbigniew SMOREDA (Orange Labs),
   Cezary ZIELMCKI (Orange Labs)

3. LOCATION PATTERNS OF MOBILE USERS : A LARGE-SCALE STUDY
   Ashwin SRIDHARAN (AT&T Labs),
   Jean BOLOT (Technicolor)

4. A MULTI-SCALE MULTI-CULTURAL STUDY OF COMMUTING PATTERNS INCORPORATING DIGITAL TRACES
   Yiangxiang YANG (MIT),
   Marta C. GONZALEZ (MIT)
1. SCALING THEORY OF HUMAN MOBILITY AND SPATIAL NETWORKS
   Pierre DEVILLE (Université catholique de Louvain),
   Dashun WANG (Northeastern University, Dana Farber Cancer Institute),
   Chaoming SONG (Northeastern University, Dana Farber Cancer Institute),
   Nathan EAGLE (Northeastern University),
   Vincent BLONDEL (Université catholique de Louvain),
   Albert-László BARABÁSI (Northeastern University, Dana Farber Cancer Institute, Harvard Medical School)

2. PROXY NETWORKS FOR HUMAN MOBILITY IN EUROPE: THE IMPACT ON EPIDEMIC MODELING
   Michele TIZZONI (Institute for Scientific Interchange),
   Paolo BAJARDI (University of Turin),
   Adeline DECUYPER (Université Catholique de Louvain),
   Guillaume KON KAM KING (CNRS),
   Christian SCHNEIDER (MIT),
   Vincent BLONDEL (Université Catholique de Louvain),
   Zbigniew SMOREDA (Orange Labs),
   Marta C. GONZALEZ (MIT),
   Vittoria COLIZZA (INSERM, Université Pierre et Marie Curie, Institute for Scientific Interchange)

3. HUMAN MOBILITY MODELING AT METROPOLITAN SCALES
   Sibren ISAACMAN (Loyola University),
   Richard BECKER (AT&T Lab),
   Ramón CÁCERES (AT&T Lab),
   Margaret MARTONOSI (Princeton University),
   James ROWLAND (AT&T Lab),
   Alexander VARSHAVSKY (AT&T Lab),
   Walter WILLINGER (AT&T Lab)

4. GEOGRAPHIC SIMILARITY WITHIN SOCIAL NETWORKS
   Jameson L. TOOLE (MIT),
   Carlos HERRERA (Universidad Politécnica de Madrid),
   Christian M. SCHNEIDER (MIT),
   Marta C. GONZÁLEZ (MIT)
13:30-14:00 KEYNOTE TALK
William HOFFMAN, Head of Telecom Industry, World Economic Forum

14:00-15:15 SESSION 7 // Trajectories and regularities

1. LATE FOR GOOD
Vsevolod SALNIKOV (University of Namur),
Renaud LAMBIOTTE (University of Namur)

2. DO MOBILE PHONE DATA ALLOW ESTIMATING REAL HUMAN TRAJECTORY?
Sahar HOTEIT (LIP6, MIT),
Stefano SECCI (LIP6),
Stanislav SOBOLEVSKY (MIT),
Guy PUJOLLE (LIP6),
Carlo RATTI (MIT)

3. DEPICT URBAN ACTIVITIES FROM REAL MOVEMENT WITH AUTO-GPS
Teerayut HORANONT (University of Tokyo),
Apichon WITAYANGKURN (University of Tokyo),
Ryosuke SHIBASAKI (University of Tokyo)

4. AGGREGATED OD TRACKS OF MOBILE PHONE DATA FOR THE RECOGNITION OF DAILY MOBILITY SPACES: AN APPLICATION TO LOMBARDIA REGION
Paolo TAGLIOLATO (Politecnico di Milano),
Fabio MANFREDINI (Politecnico di Milano),
Paola PUCCI (Politecnico di Milano)

5. UNDERSTANDING HUMAN MOBILITY DUE TO LARGE-SCALE EVENTS
Faber HENRIQUE Z. XAVIER (Pontifical Catholic University of Minas Gerais),
Lucas M. SILVEIRA (Pontifical Catholic University of Minas Gerais),
Jussara M. ALMEIDA (Universidade Federal de Minas Gerais)
Carlos HENRIQUE S. MALAB (Oi Telecom)
Artur ZIVIANI (National Laboratory for Scientific Computing Brazil),
Humberto T. MARQUES-NETO (Pontifical Catholic University of Minas Gerais)

15:15-15:30 POSTER FLASH SESSION 2 // Network
1. DETECTING FACE-TO FACE MEETINGS USING SMARTPHONE SENSORS
   Piotr SAPIEZYNSKI (University of Denmark),
   Arkadiusz STOPCZYNSKI (University of Denmark),
   Sune LEHMAN (University of Denmark)

2. VEHICULAR TRAFFIC ESTIMATION LEVERAGING LOCATION AREA UPDATES OF MOBILE PHONES
   Andreas JANECEK (University of Vienna),
   Danilo VALERIO (Telecommunication Research Center),
   Karin A. HUMMEL (Communication System Group),
   Carlo RICCIATO (Telecommunications Research Center),
   Helmut HLAVACS (University of Vienna)

3. EMERGENCE OF CONGESTION IN ROAD NETWORKS BASED ON REALISTIC DEMAND OBTAINED FROM MOBILE PHONE DATA
   Serdar COLAK (MIT),
   Christian M. SCHNEIDER (MIT),
   Pu WANG (Central South University),
   Marta C. GONZALES (MIT)

4. INDICATORS OF WEALTH, ECONOMIC DIVERSITY AND SEGREGATION IN CÔTE D'IVOIRE USING MOBILE PHONE DATASETS
   Thoralf GUTIERREZ (UCL),
   Gautier KRINGS (Real Impact, UCL),
   Vincent BLONDEL (UCL)

5. CAN CELL PHONE TRACES MEASURE SOCIAL DEVELOPMENT?
   Vanessa FRIAS-MARTINEZ (Telefonica Research),
   Victor SOLO (Columbia University), Jesus Virseda (Carlos III University),
   Enrique FRIAS-MARTINEZ (Telefonica Research)
9:30-10:45 SESSION 9 // Social structure

1. MOBILE COMMUNICATION IN BUSINESS NETWORKS: STRUCTURE AND LEADERSHIP
   Gauthier KRINGS (Real Impact),
   Didier BACLIN (Real Impact),
   Loïc JACOBS VAN MERLEN (Real Impact),
   Marcelo LOBATO PIMENTA (Telefonica/Vivo),
   Felipe DE ABREU GALLI (Telefonica/Vivo)

2. A PLACE-FOCUSED MODEL FOR SOCIAL NETWORK FORMATION IN CITIES
   Chloë BROWN (University of Cambridge),
   Anastasios NOULAS (University of Cambridge),
   Cecilia MASCOLO (University of Cambridge),
   Vincent BLONDEL (UCL)

3. A COMPARATIVE STUDY OF DECENTRALIZED ROUTING IN SOCIAL NETWORK BASED ON MOBILE PHONE DATA
   Carlos HERRERA (MIT),
   Christian M. SCHNEIDER (MIT),
   Thomas COURONNE (Orange Labs),
   Zbigniew SMOREDA (Orange Labs),
   Rosa M. BENITO (MIT),
   Marta C. GONZALES (MIT)

4. MIGRATION AND ETHNIC SEGREGATION: EVIDENCE FROM ESTONIA'S MOBILE PHONE LOGS
   Joshua BLUMENSTOCK (University of Washington),
   Ott TOOMET (Tartu University)

5. WHY DOES MY PHONE ALWAYS RING WHEN I AM ABOUT TO MAKE A CALL?
   Jeppe JUUL (University of Copenhagen),
   Albert-Laszlo BARABASI (Northeastern University, Harvard Medical School, Dana-Farber Cancer Institute)

10:45-11:15 COFFEE BREAK

11:15-12:00 SESSION 10 // Privacy

1. DE-ANONYMIZING D4D DATASETS
   Kumar SHARAD (University of Cambridge Computer Laboratory),
   George DANEZIS (Microsoft Research)
2. DIFFERENTIALLY PRIVATE MODELING OF HUMAN MOBILITY AT METROPOLITAN SCALES
   Darakhshan J. Mir (Rutgers University),
   Ramon Caceres (AT&T Labs),
   Sibren Isaacman (Loyola University Maryland),
   Margaret Martonosi (Princeton University),
   Rebecca N. Wright (Rutgers University)

3. UNIQUE IN THE CROWD: THE PRIVACY BOUNDS OF HUMAN MOBILITY
   Yves-Alexandre de Montjoye (MIT, UCL),
   César A. Hidalgo (MIT, Harvard University, Instituto de Sistemas Complejos de Valparaiso),
   Michel Verleysen (UCL)
   Vincent Blondel (UCL, MIT)

► 12:00-13:30 LUNCH

► 13:30-14:00 KEYNOTE TALK
   Samuel Madden, Head of bigdata, MIT

► 14:00-15:00 SESSION 11 // INFORMATION PROPAGATION

1. THE USE OF MOBILE PHONE CALL RECORD DATA FOR MALARIA CONTROL AND ELIMINATION STRATEGIC PLANNING
   A.J. Tatem (University of Southampton, National Institute for Health),
   Z. Huang (University of Florida),
   U. Kumar (University of Florida)
   D. Pindolia (University of Florida),
   C. Lourenco (Clinton Health Access Initiative, Boston)

2. TIME-VARYING NETWORKS AND THE WEAKNESS OF STRONG TIES
   Marton Karsai (Northeastern University, Aalto University),
   Nicola Perra (Northeastern University),
   Alessandro Vespignani (Northeastern University, Harvard University, Institute for Scientific Interchange Foundation)

3. LIMITED COMMUNICATION CAPACITY UNVEILS STRATEGIES FOR HUMAN INTERACTION
   Giovanna Miritello (Universidad Carlos III de Madrid, Telefonica Research),
   Rubén Lara (Telefonica Research),
   Manuel Cebrian (NICTA, University of California at San Diego),
   Esteban Moro (Universidad Carlos III de Madrid, Universidad Autonoma de Madrid)

4. IS SOCIAL INFLUENCE ALWAYS POSITIVE? EVIDENCE FROM A LARGE MOBILE NETWORK
   Rodrigo Belo (Carnegie Melon University),
   Pedro Ferreira (Carnegie Melon University)
1. Exploring the Multilevel Community Structure in the D4D Dataset  
   X. LIU, T. MURATA, K. WAKITA

   B. LIM, D. DORAN, V. MENDIRATTA, M. RODRIGUEZ, D. KLABJAN

3. Estimating Human Dynamics in Cote d’Ivoire Through D4D Call Detail Records  
   K. WAKITA, R. KAWASAKI

4. « Calling Abidjan » - Improving Population Estimations with Mobile Communication Data  
   H. STERLY, B. HENNIG, K. DONGO

5. Communication Patterns, Human Mobility and Socio-Economic Developments of Ivory Coast  
   M. LIN, W.-J. HSU, Z. QI LEE

6. Understanding ethnical interactions on Ivory Coast  
   A. J. MORALES, W. CREIXELL, J. BORONDO, J.C. LOSADA, R.M. BENITO

7. Impacts of External Shocks in Commodity-Dependent Low-Income Countries : Insights from mobile phone call detail records from Cote D’Ivoire  
   A. FAJEBE, P. BRECKE

8. Regional patterns of socio-economic activity in Côte d’Ivoire  
   M. DUSI, M. AHMED, R. CAPORICCI, N. CHEESEMAN

9. Regional Development – Capturing a nation’s sporting interest through call detail analysis  
   D. MC GOWAN, N. HURLEY

    N. BHARTI, X. LU, L. BENGTSSON, E. WETTER, A. TATEM

11. Analysing and mapping population movements from anonymous cellphone activity data  
    H. GLASS, I. KIRKPATRICK, A. SCHIFF

12. Spotted : Connecting People, Locations and Real-World Events in a Cellular Network  
    R. TRESTIAN, F. ZAMAN, G.-M. MUNTEAN

13. Towards an early warning system : the effect of weather on mobile phone usage. A case study in Abidjan  
    J. PEDRO CRAVEIRO, F. M. V. RAMOS, E. KANJO, N. EL MAWASS

    S. LINARDI, S. KALYANARAMAN, D. BERGER

15. Symbolic clustering of users and antennae  
    M. CERINSEK, J. BODLAIJ, V. BATAGELJ

16. Discovering common structures in mobile call data : An efficient way to clustering ego graphs  
    S. AGHA MUHAMMAD, K. VAN LAERHOVEN
17. Data Analysis and Mining of Mobile Phone Dataset  
   C. Badenes Olmedo, S. Munoz Hernandez

18. First steps for a Synthetic Population of Ivory Coast  
   A. Apolloni, A. Camacho, K. Eames, J. W. Edmunds, S. Funk

19. Place Identification and Prediction in the D4D Data Set using Machine Learning  
   N. GhourchiAn, D. Precup

20. Patterns of Cell Towers in Mobile Cellular Network  
   J. Xiong, G. Ranjan, L. Chen, Z.-L. Zhang

21. Mobile Phone Data Analysis of Cote d'Ivorie  
   D. Gundogdu

22. Properties of Dynamic Networks  
   R. Anand, C. K. Reddy

23. Constrained link prediction on the D4D dataset  
   B. Zong, P. Bogdanov, A. K. Singh

24. Interactive Visualization of Cellphone Network Data Using D3 : The Case of Ivory Coast  
   M. Rodriguez, V. Mendiratta, B. Lim, D. Doran, D. Klabjan

25. NVizABLE : A Web-Based Network Visualization Interface  
   J. Smith, J. Stevens, M. Y. Idris

26. Mobile Data Delivery through Opportunistic Communications among Cellular Users : A Case Study for the D4D Challenge  
   Y. Zhu, C. Zhang, Y. Wang

27. EEMC : An Energy-Efficient Mobile Crowdsensing Mechanism by Reusing Call/SMS Connections  
   H. Xiong, L. Wang, D. Zhang

28. Real-time streaming mobility analytics  
   A. Garzó, I. Petrás, C. István Sidló, A. A. Benczúr

29. Visualization of traffic  
   J. Bodlaj, M. Cerinsek, V. Batagelj

30. Daily Commuting in Ivory Coast : Development Opportunities  
   M. Mamei, L. Ferrari

31. Building a minimal traffic model from mobile phone data  
   M. Zilske, K. Nagel

32. A Tale of Peoples' Movement Patterns in Developing Countries  
   K. Yadav, A. Kumar, V. Naik, A. Singh

33. Commuting Dynamics 4 Change  
   R. Maestre, R. Lario, M. Munoz, R. Abad, J. Gonzalez, A. Martin, E. Perez, J. L. Fdez-Pacheco
34. The geography and carbon footprint of mobile phone use in Cote d'Ivoire  
V. SALNIKOV, D. SCHIEN, H. YOUN, R. LAMBIOTTE, M. T. GASTNER

35. Analysis of New Strategies for Resources Allocation and Infrastructure Development in Cote d'Ivoire by Mapping Telecommunication Densities  
Y. HUI, M. LIU, P. HUI

36. Social, Disconnected or In between : Mobile Data reveals urban mood  
E. KANJO, N. EI MAWASS, J. PEDRO CRAVEIRO, F. M. V. RAMOS

37. Studying Intercity Travels and Traffic Using Cellular Network Data  
W. WU, E. YEOW CHEU, Y. FENG, D. NGAN LE, G. ENG YAP, X. LI

38. Human Mobility Flows in the City of Abidjan  
D. NABOULSI, M. FIORE, R. STANICA

39. Revealing the pulse of human dynamics in a country from mobile phone data  
S. SCEPANOVIC, P. BEN HUI, A. YLA-JAASKI

40. Profiling workers’ activity-travel behavior based on mobile phone data  
F. LIU, D. JANSENS, G. WETS, M. COOLS

41. Extracting Large Scale Social Relational Dynamics from Mobile Communications Data  
J. HUCK, P. COULTON, D. WHYATT

42. Mobility and communication patterns in Ivory Coast  
M. MITROVIC, V. PALCHYKOV, H.-H. JO, J. SARAMÄKI

43. Detecting Mobility Patterns in Mobile Phone Data from the Ivory Coast  
M. F. DIXON, S. P. AIELLO, F. FAPOHUNDA, W. GOLDSTEIN

44. Predicting Human Mobility Patterns in Cities  
X-Y. YAN, C. ZHAO, W. WANG

45. Using Mobile Phone Data to Supercharge Epidemic Models of Cholera Transmission in Africa : A Case Study of Cote d'Ivoir  
A. S. AZMAN, E. A. UURQHART, B. ZAITCHIK, J. LESSLER

46. Information Dissemination using Human Mobility in Realistic Environment- (E-Inspire)  
R. AGARWAL, V. GAUTHIER, M. BECKER

47. Design and implémentation of a tool for the Correlation between the rate of prévalence of a pathology and the flow of communication between diverse localities  
T. DJOTIO NDIÉ, Z. NGANMENI, S. J. NOUHO NOUTAT

48. Human mobility and communication patterns in Côte d’Ivoire : A network perspective for malaria control  
E. A. ENNS, J. H. AMUASÍ

49. Exploring Community Structure to Understand Disease Spread and Control Using Mobile Call Detail Records  
M. SARAVANAN, P. KARTHIKEYAN, A. AARTHI, M. KIRUTHIKA, S. SUGANYA

50. Who should be selected to collect information ?: Exploiting mobility to achieve maximum coverage  
J. LEE, K. LEE, J. JEONG, Y. YI, S. CHONG, Y. KIM
51. Large-scale Measurements of Network Topology and Disease Spread: A Pilot Evaluation Using Mobile Phone Data in Côte d’Ivoire
   R. CHUNARA, E. O. NSOESIE

52. Are gravity models appropriate for estimating the spatial spread of malaria?
   A. WESOLOWSKI, C. O. BUCKEE

53. On Models Characterizing Cellular Social Networks
   D. DEKA, S. VISHWANATH

54. Neighborhood structures in socio-demographic and HIV infection conditions
   Indication to the potential of mHealth for tackling HIV/AIDS in Ivory Coast
   A. ARAI, T. HORANONT, A. WITAYANGKURN, R. SHIBASAKI

55. Disease Outbreak Detection by Mobile Network Monitoring: a case study with the D4D datasets
   N. BALDO, P. CLOSAS

56. Applying Mobile Datasets in Computational Public Health Research
   J. P. LEIDIG, Y. KUTSUMI, K. A. O’HEARN, C. M. SAUER, J. SCRIPPS, G. WOLFFE

57. Combining call records and road data for strategic disaster response planning
   Z. HUANG, U. KUMAR

THURSDAY MAY 2, 2013

► 10:00-10:15 POSTERS 1 // Mobility

1. Human Mobility and Predictability enriched by Social Phenomena Information
   Nicolas B. PONIEMAN

2. Pisa Tourism Fluxes Observatory: deriving mobility indicators from GSM calls habits
   Barbara FURLETTI

3. Hierarchical Exploration of Human Mobility Regularities
   Zhenhui JESSIE LI

4. Mining User Mobility Features for Next Place Prediction in Location-based Services
   Anastasios NOULAS

5. Extracting People’s Stays from Cellular Network Data
   Mori KUROKAWA

   Kuldeep YADAV

7. Properties of the Positioning Error of Cell Phone Trajectories
   Michael ULM
8. Privacy in Computational Social Science: An overview
   Riccardo PIETRI

9. Participant Behavior in PHONELAB
   Anandatirtha NANDUGUDI

10. Exploring the Use of Urban Greenspace through Cellular Network Activity
    Ramón CÁCERES

15:15-15:30 POSTERS 2 // Network

11. Simulation of Epidemic Spread using Cell-Phone Call Data: H1N1 Case Study
    Enrique FRIAS-MARTINEZ

12. Network-behavior Dynamics in a Medium Size Mobile Phone Network
    Cheng WANG

13. On Information Propagation in Mobile Call Networks
    Kirill DYAGILEV

14. Using telephone network data to study the effects of socio demographics on ego network structure
    Binh PHAN

    Dhaval ADJOUDAH

16. Accelerating internet growth in Asia using viral spreading
    Pål SUNDSSØY

17. Determinants of Subscriber Churn in Wireless Networks: The Role of Peer Influence
    Qiwei HAN

18. Understanding Quota Dynamics in Wireless Networks
    Matthew ANDREWS

19. Quantitative Analysis of Community Detection Methods for Longitudinal Mobile Data
    Matthew ANDREWS

20. Calling Patterns in Human Communication Dynamics
    Zhi-Qiang JIANG