Enhanced real time services for an optimized multimodal mobility relying on cooperative networks and open data

Risultati

Informazioni relative al progetto

TIMON

ID dell'accordo di sovvenzione: 636220

Sito web del progetto

DOI
10.3030/636220

Progetto chiuso

Data della firma CE
14 Aprile 2015

Data di avvio
1 Giugno 2015

Data di completamento
30 Novembre 2018

Finanziato da
SOCIETAL CHALLENGES - Smart, Green And Integrated Transport

Costo totale
€ 5 605 213,00

Contributo UE
€ 5 605 213,00

Coordinato da
UNIVERSIDAD DE LA IGLESIA DE DEUSTO ENTIDAD RELIGIOSA
Spain

CORDIS fornisce collegamenti ai risultati finali pubblici e alle pubblicazioni dei progetti ORIZZONTE.

I link ai risultati e alle pubblicazioni dei progetti del 7° PQ, così come i link ad alcuni tipi di risultati specifici come dataset e software, sono recuperati dinamicamente da .OpenAIRE.

Risultati finali

Documents, reports (3)

Publishable summary v3
Update Publishable summary

Publishable summary v2
Update Publishable summary

Publishable summary v1
Publishable summary

Websites, patent fillings, videos etc. (4)

Social network profiles

Dissemination material: compilation of articles, flyers, brochures, etc, for the project diffusion
Dissemination material will consist of the flyers, brochures, posters, banners and other material.

Project web site
Project web site: will describe the developed structure and contents of the TIMON website, together with the plans to keep it up to date throughout the project

Questionnaires
Questionnaires for feedback retrieval.

Pubblicazioni

Conference proceedings (10)

Time-controlled Neighborhood-driven Policy-based Network Selection Algorithm for Message Dissemination in Hybrid Vehicular Networks
Autori: Oleg Oleinichenko, Yagmur Sevilmis, Karsten Roscher, Josef Jiru
Pubblicato in: Proceedings of the 4th International Conference on Vehicle Technology and Intelligent Transport Systems, 2018, Pagina/e 141-155, ISBN 978-989-758-293-6

Editore: SCITEPRESS - Science and Technology Publications
DOI: 10.5220/0006705901410155

Low-cost GNSS/INS/Odometric sensor fusion platform for ground intelligent transportation systems

Autori: Arribas, Javier; Moragrega, Ana; Fernández-Prades, Carles; Closas, Pau
Pubblicato in: Design, Implementation, and Performance in the Urban Canyon of a Low-cost GNSS/INS/Odometric Sensor Fusion Platform for Ground Intelligent Transportation Systems, Numero 1, 2017
Editore: the ION GNSS+ 2017
DOI: 10.5281/zenodo.1037318

Application of Artificial Intelligence Techniques to Traffic Prediction and Route Planning, the vision of TIMON project

Autori: E. Osaba; P. Lopez-Garcia; E. Onieva; A.D. Masegosa; L. Serrano; H. Landaluce
Pubblicato in: 12th ITS European Congres, Numero 2, 2017
Editore: ERTICO ITS Europe
DOI: 10.5281/zenodo.894075

Know Thy Neighbor - A Data-Driven Approach to Neighborhood Estimation in VANETs

Autori: Karsten Roscher, Thomas Nitsche, Rudi Knorr
Pubblicato in: 2017 IEEE 86th Vehicular Technology Conference (VTC-Fall), 2017, Pagina/e 1-5, ISBN 978-1-5090-5935-5
Editore: IEEE
DOI: 10.1109/VTCFall.2017.8288303

Towards the development of real time services for an optimized multimodal mobility supported by cooperative networks and open data - Advances in TIMON project

Autori: Hugo Landaluce,; Leire Serrano; Enrique Onieva; Antonio D. Masegosa; Eneko Osaba; Pedro Lopez
Pubblicato in: TRA conference 2018 (TRAconf), Vienna, Austria, 16-19 April 2018, Numero 2, 2018
Editore: TRAconf
DOI: 10.5281/zenodo.1309250

A Technology-agnostic GNSS/INS Real-time Sensor Fusion Platform with Ultra Wide Band Cooperative Distance Measurements for Terrestrial Vehicle Navigation

Autori: Javier Arribas, Monica Navarro, Ana Moragrega, David Calero, Enric Fern&#xfffd;ndez, Jordi Vil&#xfffd;-Valls, Carles Fern&#xfffd;ndez-Prades
Pubblicato in: Proceedings of the 31st International Technical Meeting of The Satellite Division of the Institute of Navigation (ION GNSS+ 2018), 2018, Pagina/e 1967-1984, ISBN 0-936406-10-0

Editore: Institute of Navigation
DOI: 10.33012/2018.16014

Transportation Ecosystem Framework in Fog to Cloud Environment
Autori: Matija Cankar, Saso Stanovnik, Hugo Landaluce
Pubblicato in: 2018 IEEE/ACM International Conference on Utility and Cloud Computing Companion (UCC Companion), 2018, Pagina/e 266-271, ISBN 978-1-7281-0359-4
Editore: IEEE
DOI: 10.1109/UCC-Companion.2018.00066

Comparison between Golden Ball Meta-heuristic, Evolutionary Simulated Annealing and Tabu Search for the Traveling Salesman Problem
Autori: Eneko Osaba, Roberto Carballedo, Pedro Lopez-Garcia, Fernando Diaz
Pubblicato in: Proceedings of the 2016 on Genetic and Evolutionary Computation Conference Companion - GECCO '16 Companion, 2016, Pagina/e 1469-1470, ISBN 9781-450343237
Editore: ACM Press
DOI: 10.1145/2908961.2931634

TIMON Project - Description and Preliminary Tests for Traffic Prediction Using Evolutionary Techniques
Autori: Eneko Osaba, Pedro López-Garcia, Antonio D. Masegosa, Enrique Onieva, Hugo Landaluce, Asier Perallos
Pubblicato in: Proceedings of the 2016 on Genetic and Evolutionary Computation Conference Companion - GECCO '16 Companion, 2016, Pagina/e 1471-1472, ISBN 9781-450343237
Editore: ACM Press
DOI: 10.1145/2908961.2931635

Xlab Research: Experiences on Applications for Smart Cities and Future Society
Autori: Matija Cankar
Pubblicato in: Information Society multi-conference (IS2015). Workshop Smart cities and communities as a development opportunity for Slovenia, 2015, Pagina/e 46-49, ISBN 978-961-264-090-3
Editore: Institute Jožef Stefan

Book chapters (5)

Applications of Soft Computing in Intelligent Transportation Systems
Autori: Antonio D. Masegosa, Enrique Onieva, Pedro Lopez-Garcia, Eneko Osaba

Pubblicato in: Soft Computing Based Optimization and Decision Models, 2017, Pagina/e 63-81
Editore: Springer International Publishing
DOI: 10.1007/978-3-319-64286-4_4

Ensemble and Fuzzy Techniques Applied to Imbalanced Traffic Congestion Datasets: A Comparative Study
Autori: Pedro Lopez-Garcia, Antonio D. Masegosa, Enrique Onieva, Eneko Osaba
Pubblicato in: Bioinspired Optimization Methods and Their Applications, Numero 10835, 2018, Pagina/e 185-196, ISBN 978-3-319-91640-8
Editore: Springer International Publishing
DOI: 10.1007/978-3-319-91641-5_16

An Evolutionary Discrete Firefly Algorithm with Novel Operators for Solving the Vehicle Routing Problem with Time Windows
Autori: Eneko Osaba, Roberto Carballedo, Xin-She Yang, Fernando Diaz
Pubblicato in: Nature-Inspired Computation in Engineering, 2016, Pagina/e 21-41, ISBN 978-3-319-30235-5
Editore: Springer International Publishing
DOI: 10.1007/978-3-319-30235-5_2

Hybrid Optimization Method Applied to Adaptive Splitting and Selection Algorithm
Autori: Pedro Lopez-Garcia, Michał Woźniak, Enrique Onieva, Asier Perallos
Pubblicato in: Hybrid Artificial Intelligent Systems, 2016, Pagina/e 742-750, ISBN 978-3-319-32034-2
Editore: Springer International Publishing
DOI: 10.1007/978-3-319-32034-2_62

Short-Term Traffic Congestion Forecasting Using Hybrid Metaheuristics and Rule-Based Methods: A Comparative Study
Autori: Pedro Lopez-Garcia, Eneko Osaba, Enrique Onieva, Antonio D. Masegosa, Asier Perallos
Pubblicato in: Advances in Artificial Intelligence, 2016, Pagina/e 290-299, ISBN 978-3-319-44636-3
Editore: Springer International Publishing
DOI: 10.1007/978-3-319-44636-3_27

Peer reviewed articles (9)

Good practice proposal for the implementation, presentation, and comparison of metaheuristics for solving routing problems

Autori: E. Osaba, R. Carballedo, F. Diaz, E. Onieva, A.D. Masegosa, A. Perallos
Pubblicato in: Neurocomputing, Numero 271, 2018, Pagina/e 2-8, ISSN 0925-2312
Editore: Elsevier BV
DOI: 10.1016/j.neucom.2016.11.098

Fog and Cloud in the Transportation, Marine and eHealth Domains
Autori: Matija Cankar, Eneko Olivares Gorriti, Matevž Markovič, Flavio Fuart
Pubblicato in: Fog and Cloud in the Transportation, Marine and eHealth Domains, Numero Euro-Par 2017: Euro-Par 2017: Parallel Processing Workshops, 2018, Pagina/e 292-303, ISSN 0302-9743
Editore: Springer Verlag
DOI: 10.1007/978-3-319-75178-8_24

Ensemble Classification for Imbalanced Data Based on Feature Space Partitioning and Hybrid Metaheuristics
Autori: P. Lopez-Garcia, A. D. Masegosa, E. Osaba, E. Onieva, A. Perallos
Pubblicato in: Applied Intelligence, 2019, ISSN 0924-669X
Editore: Kluwer Academic Publishers
DOI: 10.1007/s10489-019-01423-6

GACE: A meta-heuristic based in the hybridization of Genetic Algorithms and Cross Entropy methods for continuous optimization
Autori: P. Lopez-Garcia, E. Onieva, E. Osaba, A.D. Masegosa, A. Perallos
Pubblicato in: Expert Systems with Applications, Numero 55, 2016, Pagina/e 508-519, ISSN 0957-4174
Editore: Pergamon Press Ltd.
DOI: 10.1016/j.eswa.2016.02.034

An improved discrete bat algorithm for symmetric and asymmetric Traveling Salesman Problems
Autori: Eneko Osaba, Xin-She Yang, Fernando Diaz, Pedro Lopez-Garcia, Roberto Carballedo
Pubblicato in: Engineering Applications of Artificial Intelligence, Numero 48, 2016, Pagina/e 59-71, ISSN 0952-1976
Editore: Pergamon Press Ltd.
DOI: 10.1016/j.engappai.2015.10.006

A Comparative Study on the Performance of Evolutionary Fuzzy and Crisp Rule Based Classification Methods in Congestion Prediction
Autori: E. Onieva, P. Lopez-Garcia, A.D. Masegosa, E. Osaba, A. Perallos
Pubblicato in: Transportation Research Procedia, Numero 14, 2016, Pagina/e 4458-4467, ISSN 2352-1465
Editore: Elsevier
DOI: 10.1016/j.trpro.2016.05.368

A Hybrid Method for Short-Term Traffic Congestion Forecasting Using Genetic Algorithms and Cross Entropy

Autori: Pedro Lopez-Garcia, Enrique Onieva, Eneko Osaba, Antonio D. Masegosa, Asier Perallos
Pubblicato in: IEEE Transactions on Intelligent Transportation Systems, Numero 17/2, 2016, Pagina/e 557-569, ISSN 1524-9050
Editore: Institute of Electrical and Electronics Engineers
DOI: 10.1109/TITS.2015.2491365

A migration strategy for distributed evolutionary algorithms based on stopping non-promising subpopulations: A case study on routing problems

Autori: Asier Perallos; Fernando Diaz; Roberto Carballedo; Eneko Osaba; Pedro Lopez; Enrique Onieva
Pubblicato in: International Journal of Artificial Intelligence, Numero Vol 13 no.2, 2015, ISSN 0974-0635
Editore: CESER Publications
DOI: 10.5281/zenodo.209408

A discrete firefly algorithm to solve a rich vehicle routing problem modelling a newspaper distribution system with recycling policy

Autori: Eneko Osaba, Xin-She Yang, Fernando Diaz, Enrique Onieva, Antonio D. Masegosa, Asier Perallos
Pubblicato in: Soft Computing, 2016, ISSN 1432-7643
Editore: Springer Verlag
DOI: 10.1007/s00500-016-2114-1

Ultimo aggiornamento: 16 Agosto 2022

Permalink: https://cordis.europa.eu/project/id/636220/results/it