- Evaluation Of International Roughness Index Measurement Using Cell Phone App And Compare With Pavement Condition Index, Hossain M, 2021, Airfield And Highway Pavements 2021: Pavement Design, Construction, And Condition Evaluation
- Influence Of Surface Distresses On Smartphone-Based Pavement Roughness Evaluation, Janani L, 2021, Int J Pavement Eng
- Smartphone-Based Pavement Roughness Estimation Using Deep Learning With Entity Embedding, Aboah A, 2020, Adv Data Sci Adapt
- Evaluation Of Android-Based Cell Phone Applications To Measure International Roughness Index Of Rural Roads, Hossain Mi, 2019, International Conference On Transportation And Development 2019: Smarter And Safer Mobility And Cities
- Pavement Roughness Evaluation Method Based On The Theoretical Relationship Between Acceleration Measured By Smartphone And IRI, Zhang Z, Na, Int J Pavement Eng
- Intervening Factors In Pavement Roughness Assessment With Smartphones: Quantifying The Effects And Proposing Mitigation, Bisconsini Dr, 2021, J Transp Eng B-Pave
- Assessing And Mapping Of Road Surface Roughness Based On Gps And Accelerometer Sensors On Bicycle-Mounted Smartphones, Zang Ky, 2018, Sensors-Basel
- An Experiment On Measurement Of Pavement Roughness Via Android-Based Smartphones, Thiandee P, 2019, Int Trans J Eng Mana
- Estimation Of Pavement Serviceability Index Through Android-Based Smartphone Application For Local Roads, Aleadelat W, 2017, Transport Res Rec
- Evaluating The Ride Quality Of Unpaved Roads Using Smartphones, Yang Xy, 2020, Proc Spie
- Evaluation Of Pavement Roughness Using An Android-Based Smartphone, Aleadelat W, 2018, J Transp Eng B-Pave
- Measurement Of Pavement Roughness Using Android-Based Smartphone Application, Islam S, 2014, Transport Res Rec
- Applicability Of Smartphone-Based Roughness Data For Rural Road Pavement Condition Evaluation, Sandamal Rmk, Na, Int J Pavement Eng
- Pavement Condition Index Estimation Using Smartphone Based Accelerometers For City Of Houston, Vemuri V, 2020, Construction Research Congress 2020: Infrastructure Systems And Sustainability
- Estimation Of Road Roughness Condition From Smartphones Under Realistic Settings, Douangphachanh V, 2013, 2013 13Th International Conference On Its Telecommunications (Itst)
- A Study On The Use Of Smartphones Under Realistic Settings To Estimate Road Roughness Condition, Douangphachanh V, 2014, Eurasip J Wirel Comm
- Effects Of Smartphone Sensor Variability In Road Roughness Evaluation Ahmed Hu, Na, Int J Pavement Eng
- Feasibility Assessment Of A Smartphone-Based Application To Estimate Road Roughness, Zeng Hh, 2018, Ksce J Civ Eng
- A Crowdsourcing Solution For Road Surface Roughness Detection Using Smartphones, Li X, 2014, I Navig Sat Div Int
- Training And Testing Of Smartphone-Based Pavement Condition Estimation Models Using 3D Pavement Data Chatterjee A, 2020, J Comput Civil Eng
- Study Of The Factors Affecting Road Roughness Measurement Using Smartphones, Wang Gy, 2020, J Infrastruct Syst
- Smartphone-Enabled Road Condition Monitoring: From Accelerations To Road Roughness And Excess Energy Dissipation, Botshekan M, 2021, P Roy Soc A-Math Phy

- Calibration Of Smartphone Sensors To Evaluate The Ride Quality Of Paved And Unpaved Roads, Yang Xy, Na, Int J Pavement Eng
- Formulation Of A Simple Model To Estimate Road Surface Roughness Condition From Android Smartphone Sensors, Douangphachanh V, 2014, 2014 IEEE Ninth International Conference On Intelligent Sensors, Sensor Networks And Information Processing (IEEE Issnip 2014)
- Community Sensor Network For Monitoring Road Roughness Using Smartphones, Kumar R, 2017, J Comput Civil Eng
- Road Roughness Crowd-Sensing With Smartphone Apps Jean M, 2019, IEEE Int C Intell Tr
- A Smartphone-Based Probe Data Platform For Road Management And Safety In Developing Countries, Kataoka K, 2018, Int Conf Dat Min Wor
- Road Pavement Condition Diagnostics Using Smartphone-Based Data Crowdsourcing In Smart Cities, Staniek M, 2021, J Traffic Transp Eng
- Statistical Validation Of Crowdsourced Pavement Ride Quality Measurements From Smartphones, Medina Jr, 2020, J Comput Civil Eng
- A Machine Learning Approach To Road Surface Anomaly Assessment Using Smartphone Sensors, Basavaraju A, 2020, IEEE Sens J
- Asfault: A Low-Cost System To Evaluate Pavement Conditions In Real-Time Using Smartphones And Machine Learning, Souza Vma, 2018, Pervasive Mob Comput
- Nericell: Rich Monitoring Of Road And Traffic Conditions Using Mobile Smartphones, Mohan P, 2008, Sensys'08: Proceedings Of The 6Th Acm Conference On Embedded Networked Sensor Systems
- Smartphone Sensing Of Road Surface Condition And Defect Detection, Dong Dp, 2021, Sensors-Basel
- Estimation Of Gravel Roads Ride Quality Through An Android-Based Smartphone, Aleadelat W, 2018, Transport Res Rec
- Non-Destructive Evaluation Of The Structural State Of Asphalt Pavements With Geophones, Wang Dw, 2017, Bautechnik
- Roadsense: Smartphone Application To Estimate Road Conditions Using Accelerometer And Gyroscope, Allouch A, 2017, IEEE Sens J
- Dynamic Mapping Of Road Conditions Using Smartphone Sensors And Machine Learning Techniques, Gawad Sma, 2016, IEEE Vts Veh Technol
- Patch Defects Detection For Pavement Assessment, Using Smartphones And Support Vector Machines, Hadjidemetriou Gm, 2016, Ework And Ebusiness In Architecture, Engineering And Construction
- Winter Road Surface Condition Monitoring Field Evaluation Of A Smartphone-Based System, Linton Ma, 2015, Transport Res Rec
- Leveraging Smartphone Cameras For Collaborative Road Advisories, Koukoumidis E, 2012, IEEE T Mobile Comput
- Nericell - Using Mobile Smartphones For Rich Monitoring Of Road And Traffic Conditions Mohan P, 2008, Sensys'08: Proceedings Of The 6Th Acm Conference On Embedded Networked Sensor Systems-A
- A Novel Pavement Transverse Cracks Detection Model Using Wt-Cnn And Stft-Cnn For Smartphone Data Analysis, Chen C, Na, Int J Pavement Eng
- Spatial Roadway Condition-Assessment Mapping Utilizing Smartphones And Machine Learning Algorithms, Kyriakou C, 2021, Transport Res Rec
- Application Of Smartphones In Pavement Profile Estimation Using Sdof Model-Based Noisy Deconvolution, Moghadam A, 2021, Adv Civ Eng

- Smartphone Sensor Data Augmentation For Automatic Road Surface Assessment Using A Small Training Dataset, Setiawan Bd, 2021, Int Conf Big Data
- Alternate Method Of Pavement Assessment Using Geophones And Accelerometers For Measuring The Pavement Response, Bahrani N, 2020, Infrastructures-Base
- Crowdsourcing From The True Crowd: Device, Vehicle, Road-Surface And Driving Independent Road Profiling From Smartphone Sensors, Alam My, 2020, Pervasive Mob Comput
- Abnormal Road Surface Recognition Based on Smartphone Acceleration Sensor, Du Rh, 2020, Sensors-Basel
- Road Grade Estimation Using Crowd-Sourced Smartphone Data Gupta A, 2020, 2020 19Th Acm/IEEE International Conference On Information Processing In Sensor Networks (Ipsn 2020)
- Feature Extraction Methods Proposed For Speech Recognition Are Effective On Road Condition Monitoring Using Smartphone Inertial Sensors, Cabral Fs, 2019, Sensors-Basel
- Magtrack: Detecting Road Surface Condition Using Smartphone Sensors And Machine Learning, Dey Mr, 2019, Tencon IEEE Region
- Analyzing The Applicability Of Smartphone Sensors For Roadway Obstacle Identification In An Infrastructure-Free Environment Using A Soft Learning Approach, Pandey Ck, 2019, Stud Comput Intell
- Detecting Road Surface Wetness Using Microphones And Convolutional Neural Networks, Pepe G, 2019, 146Th Aes Convention
- Ykob: Participatory Sensing-Based Road Condition Monitoring Using Smartphones Worn By Cyclist, Takahashi J, 2018, Electr Commun Jpn
- A Deep Learning Approach For Road Damage Detection From Smartphone Images, Alfarrarjeh A, 2018, IEEE Int Conf Big Da
- Measurement And Evaluation On Deterioration Of Asphalt Pavements By Geophones, Liu Pf, 2017, Measurement
- Smart Patrolling: An Efficient Road Surface Monitoring Using Smartphone Sensors And Crowdsourcing Singh G, 2017, Pervasive Mob Comput
- Recognizing Driving Behavior And Road Anomaly Using Smartphone Sensors, Ali Ah, 2017, Int J Ambient Comput
- Vehsense: Slippery Road Detection Using Smartphones, Hou Yf, 2017, IEEE Vts Veh Technol
- Low-Cost And Accurate 3D Road Modeling Using Mobile Phone, Yang Zc, 2016, IEEE T Mobile Comput
- Characterisation Of Road Bumps Using Smartphones, Mukherjee A, 2016, Eur Transp Res Rev
- Using Geographic Information Systems And Smartphone-Based Vibration Data To Support Decision Making On Pavement Rehabilitation, Ho Ch, 2016, Comm Com Inf Sc
- Detecting, Classifying And Rating Roadway Pavement Anomalies Using Smartphones, Kyriakou C, 2016, Ework And Ebusiness In Architecture, Engineering And Construction
- Advance Vehicle-Road Interaction And Vehicle Monitoring System Using Smart Phone Applications, Sathe Ad, 2016, Proceedings Of 2016 Online International Conference On Green Engineering And Technologies (Ic-Get)
- Road Conditions Detection Using Arduino Based Sensing Module And Smartphone, Chen Sy, 2015, IEEE Icce
- Concave Distribution Characterization Of Asphalt Pavement Surface Segregation Using Smartphone And Image Processing Based Techniques, Wan Tt, 2021, Constr Build Mater
- Detection Of Road-Surface Anomalies Using A Smartphone Camera And Accelerometer, Lee T, 2021, Sensors-Basel

- Pavement Macrotexture Determination Using Multi-View Smartphone Images, Tian Xx, 2020, Photogramm Eng Rem S
- An Automated Machine-Learning Approach For Road Pothole Detection Using Smartphone Sensor Data, Wu C, 2020, Sensors-Basel
- Evaluating The Impact Of Penalising The Use Of Mobile Phones While Driving On Road Traffic Fatalities, Serious Injuries And Mobile Phone Use: A Systematic Review, Olsson B, 2020, Injury Prev
- Road Profile Estimation And Half-Car Model Identification Through The Automated Processing Of Smartphone Data, Xue K, 2020, Mech Syst Signal Pr
- Monitoring Of Pavement Deflections Using Geophones, Duong Ns, 2020, Int J Pavement Eng
- Road Profile Estimation, And Its Numerical And Experimental Validation, By Smartphone Measurement Of The Dynamic Responses Of An Ordinary Vehicle, Zhao By, 2019, J Sound Vib
- Real-Time Road Quality Assessment Using Smartphones And Cloud Lambda Architecture<Bold> </Bold>Badurowicz M, 2019, Matec Web Conf
- Analysis Of Bad Roads Using Smart Phone, Idris Mk, 2019, Int Conf Elect Comp
- Road Surface Monitoring Using Smartphone Sensors: A Review, Sattar S, 2018, Sensors-Basel
- A Privacy Enhanced Crowdsourcing Architecture For Road Information Mining Using Smartphones, Roth C, 2018, IEEE Int Conf Serv
- On The Analysis Of Road Surface Conditions Using Embedded Smartphone Sensors, Alqudah Ya, 2017, Int Conf Inform Comm
- Classification Of Road Curves And Corresponding Driving Profile Via Smartphone Trip Data, Karaduman M, 2017, 2017 International Artificial Intelligence And Data Processing Symposium (Idap)
- Detecting Type And Size Of Road Crack With The Smartphone, Kong Yy, 2017, IEEE Int C Comput
- Ecosystems Of Trusted Execution Environment On Smartphones - A Potentially Bumpy Road, Umar A, 2017, Proceedings Of The 2017 Third International Conference On Mobile And Secure Services (Mobisecserv)
- Willingness To Use Mobile Application For Smartphone For Improving Road Safety, Cardamone As, 2016, Int J Inj Control Sa
- Towards On Demand Road Condition Monitoring Using Mobile Phone Sensing As A Service, Alorabi Wa, 2016, Procedia Comput Sci
- Non-Contact Surface Wave Testing Of Pavements: Comparing A Rolling Microphone Array With Accelerometer Measurements, Bjurstrom H, 2016, Smart Struct Syst
- Clustering For Road Damage Locations Obtained By Smartphone AccelerometersTakahashi J, 2016, Second International Conference On Iot In Urban Space (Urb-Iot 2016)
- Fundaments Of A Data Stream Mining Platform For Road Quality Evaluation Using Smartphone Sensors Gaspar V, 2015, Int Symp Comp Intell
- Road Crossing Recognition Through Smartphone'S Accelerometer, Bujari A, 2011, Ifip Wirel Day
- Roadmic: Road Surface Monitoring Using Vehicular Sensor Networks With Microphones, Mednis A, 2010, Comm Com Inf Sc