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## **Estudi de la coautoria de publicacions científiques entre la Universitat Politècnica de Catalunya i l'Aalto University**

**Biblioteca Rector Gabriel Ferraté**

Juliol 2014

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# Estudi de la coautoria de publicacions científiques entre la Universitat Politècnica de Catalunya i l'Aalto University

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## 1. Introducció

### 1.1. Abast de l'estudi

#### *Abast temàtic*

L'estudi recull la publicació científica de la Universitat Politècnica de Catalunya, de totes les àrees d'especialització de la UPC, realitzada en col·laboració amb autors de l'Aalto University.

Els autors de la UPC que s'han considerat, són professors i investigadors vinculats a la UPC en el moment de signar les publicacions incloses a l'informe.

#### *Abast documental*

No s'han introduït límits documentals a la cerca. S'han considerat tot tipus de documents científics: articles publicats a revistes, comunicacions a congressos, reviews, material editorial, cartes, etc.

#### *Abast cronològic*

No s'han establert límits cronològics a la cerca. La referència més antiga correspon a un article publicat al 2003. La referència més recent correspon a un article publicat al 2014

### 1.2. Metodologia

Les dades a partir de les quals s'ha elaborat l'informe s'han extret de les bases de dades Scopus i Web of Science (WoS), abastament usades com a eines d'anàlisi bibliomètrica dins del món acadèmic.

Una de les principals dificultats en l'elaboració d'estudis bibliomètrics prenent com a base Scopus o WoS, és la manca generalitzada de normalització als noms d'autors i institucions. És important tenir en compte que totes dues eines mantenen llistats de formes normalitzades de noms d'institucions, però tot i així, les dades que apareixen als registres de Scopus o WoS, són les mateixes que els propis autors i editors van fer constar en els articles, tal i com aquests es van publicar originalment. Com a conseqüència, les institucions sovint apareixen consignades amb diverses variants dels seus noms, circumstància que complica en gran mesura la recuperació exhaustiva d'informació pertinent<sup>1</sup>.

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<sup>1</sup> En el cas de UPC aquest problema és especialment greu atès que es poden detectar fins a desenes d'aquestes variants.

Per tal de donar una solució a aquest fet, i després d'examinar les especificitats de les institucions acadèmiques que s'analitzen, s'ha decidit aplicar una estratègia única i comuna en la construcció d'algorismes de cerca vàlida per a totes les universitats considerades. L'estratègia de cerca manté, com a principi bàsic, l'obtenció del màxim possible d'ítems per cadascuna de les institucions, sempre i quan no es trenqui la pertinença dels resultats, tot tenint en compte:

- les variants dels noms que s'han recollit són les següents:
  - forma normalitzada a *Essential Science Indicators d'ISI Thomson Reuters* i a *Scopus (AF-ID)*
  - sigles i abreviatures
  - variants en l'idioma/idiomes oficials
  - variants en anglès
  - altres formes alternatives no normalitzades
- el control dels resultats obtinguts mitjançant la revisió del conjunt de registres recuperat en la cerca.

### 1.3. Presentació dels resultats

En primer lloc es presenten les principals dades obtingudes: nombre de publicacions realitzades en coautoria; evolució per anys en la publicació en coautoria; distribució per àrees temàtiques, i autors UPC que han publicats articles en coautoria amb l'Aalto University.

A continuació es relacionen les referències de les publicacions realitzades conjuntament per autors vinculats a la UPC i l'Aalto University. Les referències estan ordenades cronològicament de més recent a més antiga.

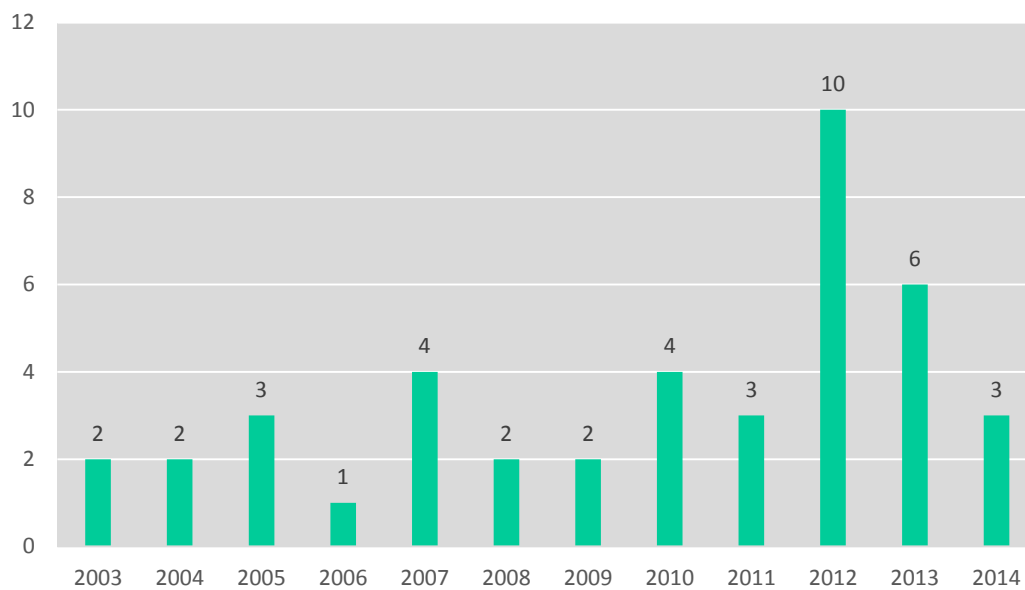
A cada referència s'han destacat en negreta els autors vinculats a la UPC, i en color taronja i els autors de l'Aalto University

## 2. Dades obtingudes

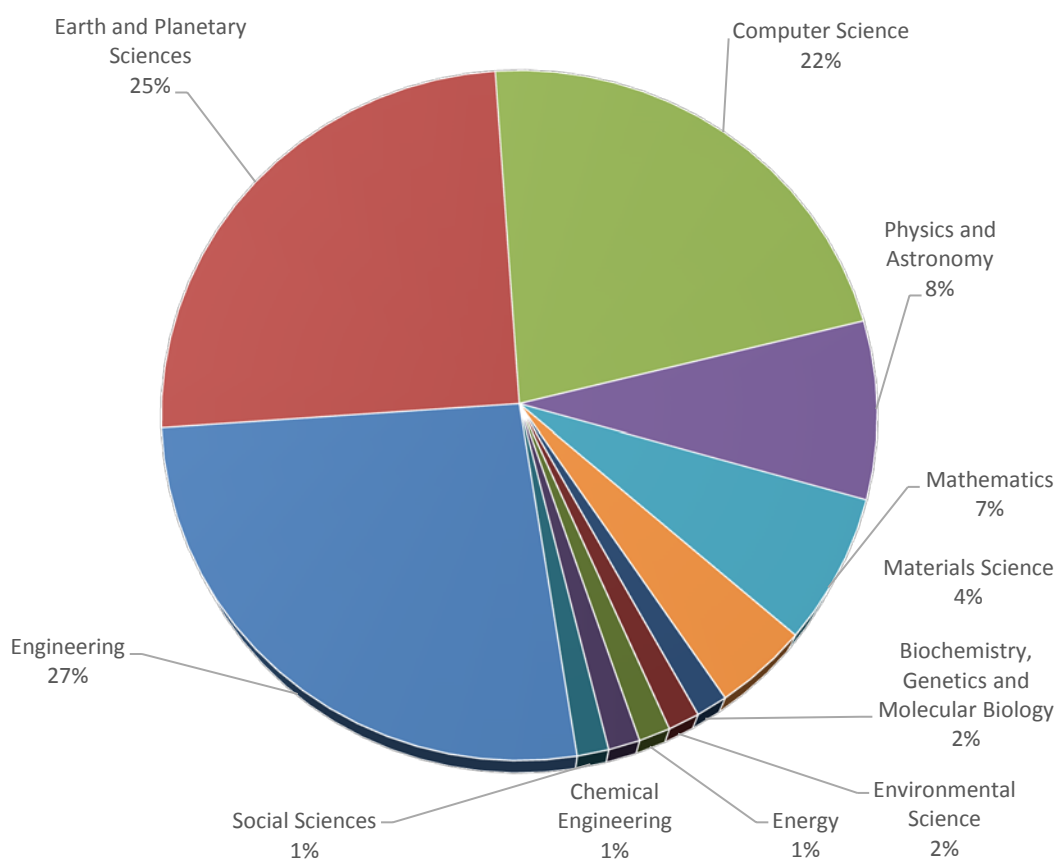
**Nombre de publicacions amb coautoria  
UPC-Barcelona Tech i Aalto University**

**42**

### Evolució del nombre de coautories



<b>Distribució de coautories segons <i>Scopus Subject Areas</i><sup>2</sup></b>	
Engineering	19
Earth and Planetary Sciences	18
Computer Science	16
Physics and Astronomy	6
Mathematics	5
Materials Science	3
Environmental Science	1
Energy	1
Chemical Engineering	1
Social Sciences	1
Biochemistry, Genetics and Molecular Biology	1



<sup>2</sup> Una referència pot haver estat indexada sota dues o més àrees temàtiques



<b>Autors UPC amb publicacions en coautoria amb autors de l'Aalto University</b>		
Corbella, I.	TSC	11
Torres, F.	TSC	9
Camps, A.	TSC	6
Hasan, K.N.B.M.	EE	6
Duffo, N.	TSC	5
Luna, A.	EE	5
Vall-Llossera, M.	TSC	4
Candela, J.I.	EE	4
Rodriguez, P	EE	3
Vidal, T.	ETP	3
Jofre, L.,	TSC	2
Ibars, C.	TSC	2
Torres, J.P.	TSC	2
Arias, M.	LSI	1
Balcazar, J.L.	LSI	1
Barlet-Ros, P.	AC	1
Beraza, S.	TSC	1
Blanch, S.,	TSC	1
Blasco Cutrona, A.,	TSC	1
Citro, C.,	EE	1
Cortes, U.,	LSI	1
Delgado-Penin, J.A.	TSC	1
Fonollosa, J.	TSC	1

Garcia Gasulla, D.	LSI	1
Garcia-Ubasart, J.	ETP	1
Medina-Acosta, G.A.	TSC	1
Pastore, A.	TSC	1
Pastor-Satorras, R.	FA	1
Piella, F.B	TSC	1
Pino, D.	FA	1
Pottonen, O.	LSI	1
Pradell, L.	TSC	1
Quintana, E.	ETP	1
Romeu, J.	TSC	1

### 3. Publicacions amb coautoria Aalto University/ UPC-Barcelona Tech

**Järvinen, H., Garcia-Gasulla, D., Cortés, U.**

[A push-based agent communication model empowering assistive technologies](#)

(2014) *International Journal on Artificial Intelligence Tools*, 23 (1), art. no. 1440003, .

<sup>a</sup> Department of Media Technology, Aalto University, School of Science, P.O. Box 15400, Aalto, 00076, Finland

<sup>b</sup> Departament de Llenguatges i Sistemes Informatics, Universitat Politècnica de Catalunya, Barcelona Tech-UPC, C/Jordi Girona 1-3, Barcelona, E-08034, Spain

DOI: 10.1142/S021821301440003X

Document Type: Article

Cardellach, E., Rius, A., Martin-Neira, M., Fabra, F., Nogues-Correig, O., Ribo, S., **Kainulainen, J., Camps, A., D'Addio, S.**

[Consolidating the precision of interferometric GNSS-R ocean altimetry using airborne experimental data](#)

(2014) *IEEE Transactions on Geoscience and Remote Sensing*, 52 (8), art. no. 6677515, pp. 4992-5004.

Cited 3 times.

<sup>a</sup> Institute of Space Sciences (ICE-CSIC/IEEC), 08193 Barcelona, Spain

<sup>b</sup> ESTEC/ESA, 2200 Noordwijk, Netherlands

<sup>c</sup> School of Electrical Engineering, Aalto University, 02150 Espoo, Finland

<sup>d</sup> Polytechnic University of Catalonia (UPC), 08034 Barcelona, Spain

DOI: 10.1109/TGRS.2013.2286257

Document Type: Article

**Hasan, K.N.B.M., Rauma, K., Luna, A., Candela, J.I., Rodríguez, P.**

[Harmonic compensation analysis in offshore wind power plants using hybrid filters](#)

(2014) *IEEE Transactions on Industry Applications*, 50 (3), art. no. 6636033, pp. 2050-2060.

<sup>a</sup> Department of Electrical Engineering, Technical University of Catalonia, 08034 Barcelona, Spain

<sup>b</sup> Universiti Teknologi PETRONAS, 31750 Tronoh, Malaysia

<sup>c</sup> School of Electrical Engineering, Aalto University, 02150 Espoo, Finland

<sup>d</sup> Electrical Engineering Division, Abengoa Research, 41014 Seville, Spain

DOI: 10.1109/TIA.2013.2286216

Document Type: Conference Paper

**Ahlroth, L., Pottonen, O., Schumacher, A.**

[Approximately uniform online checkpointing with bounded memory](#)

(2013) *Algorithmica*, 67 (2), pp. 234-246.

Cited 1 time.

<sup>a</sup> Department of Information and Computer Science, Helsinki Institute for Information Technology, Aalto University, P.O. Box 15400, 00076 Aalto, Finland

<sup>b</sup> Departament de Llenguatges i Sistemes Informatics, Universitat Politècnica De. Catalunya, Barcelona, Spain

DOI: 10.1007/s00453-013-9772-5

Document Type: Conference Paper

**Pino, D., Kaikkonen, J.-P., Vilà-Guerau De Arellano, J.**

[Quantifying the uncertainties of advection and boundary layer dynamics on the diurnal carbon dioxide budget](#)

(2013) *Journal of Geophysical Research D: Atmospheres*, 118 (16), pp. 9376-9392.

<sup>a</sup> Department of Applied Physics, Universitat Politècnica de Catalunya - BarcelonaTech, Institute of Space Studies of Catalonia (IEEC-UPC), Esteve Terrades 5, 08860 Castelldefels Barcelona, Spain

<sup>b</sup> Department of Applied Physics, Aalto University School of Science, Espoo, Finland

<sup>c</sup> Meteorology and Air Quality Section, Wageningen University, Wageningen, Netherlands

DOI: 10.1002/jgrd.50677

Document Type: Article
<p><b>Medina-Acosta, G.A., Delgado-Penín, J.A., Haneda, K.</b>  <a href="#">An opportunistic cognitive radio communication through the exploitation of the small-scale fading mechanisms of the LTE mobile channel</a>  (2013) <i>Eurasip Journal on Wireless Communications and Networking</i>, 2013 (1), art. no. 87, .</p> <p><sup>a</sup> Barcelona-Tech, Signal Theory and Communications Department, Technical University of Catalonia, Jordi Girona 31, 08034 Barcelona, Spain  <sup>b</sup> Department of Radio Science and Engineering, Aalto University School of Science and Technology, Otakaari 5A, Espoo 02015, Finland</p> <p>DOI: 10.1186/1687-1499-2013-87  Document Type: Article</p>
<p><b>Garcia-Ubasart, J., Vidal, T., Torres, A.L., Rojas, O.J.</b>  <a href="#">Laccase-mediated coupling of nonpolar chains for the hydrophobization of lignocellulose</a>  (2013) <i>Biomacromolecules</i>, 14 (5), pp. 1637-1644.  Cited 1 time.</p> <p><sup>a</sup> Textile and Paper Engineering Department, ETSEIAT, Universitat Politècnica de Catalunya, E-08222 Terrassa, Spain  <sup>b</sup> Departments of Forest Biomaterials and Chemical and Biomolecular Engineering, North Carolina State University, Raleigh, NC 27695-8005, United States  <sup>c</sup> School of Science and Technology, Department of Forest Products Technology, Aalto University, 00076 Aalto, Finland</p> <p>DOI: 10.1021/bm400291s  Document Type: Article</p>
<p>Oliva, R., Martin-Neira, M., <b>Corbella, I., Torres, F., Kainulainen, J.</b>, Tenerelli, J.E., Cabot, F., Martin-Porqueras, F.  <a href="#">SMOS calibration and instrument performance after one year in orbit</a>  (2013) <i>IEEE Transactions on Geoscience and Remote Sensing</i>, 51 (1), art. no. 6226846, pp. 654-670.  Cited 5 times.</p> <p><sup>a</sup> European Space Agency, ESA-ESAC, 28691 Madrid, Spain  <sup>b</sup> European Space Agency, ESA-ESTEC, 2200 AG Noordwijk, Netherlands  <sup>c</sup> Remote Sensing Laboratory, Universitat Politècnica de Catalunya, 08034 Barcelona, Spain  <sup>d</sup> Soil Moisture and Ocean Salinity, Barcelona Expert Center, 08003 Barcelona, Spain  <sup>e</sup> Department of Radio Science and Engineering, Aalto University School of Electrical Engineering, 00076 Aalto, Finland  <sup>f</sup> CLS, Radar Division, 29280 Plouzane, France  <sup>g</sup> CESBIO, CNES/CNRS/UPS/IRD, 31401 Toulouse Cedex 9, France</p> <p>DOI: 10.1109/TGRS.2012.2198827  Document Type: Article</p>
<p>Ager, B., Balduzzi, M., <b>Barlet-Ros, P.</b>, Carvalho, P., Casas, P., Celeda, P., Cho, K., Rumin, R.C., Dainotti, A., Donnet, B., Duarte, E., Dusi, M., Finamore, A., Fukuda, K., García-Dorado, J.L., Gong, M., Gringoli, F., Gueye, B., Gunes, M., Guo, L., Halepovic, E., Hei, X., Hohlfeld, O., Hoßfeld, T., Hui, P., Jourjon, G., Lima, S., Lochin, E., Maennel, O., Mahanti, A., Malone, D., <b>Manner, J.</b>, Mehani, O., Nguyen, H., Nikiforakis, N., Pescapé, A., Pras, A., Procissi, G., Rohrer, J., Sarrar, N., Schneider, F., Sommers, J., Taekyoung, K., Traverso, S., Vadursi, M., Venkataraman, S., Vieira, A., Wählich, M., Xiang, J., Zander, S., De Boer, P.-T., Gebert, S., Kuhn, N., Xie, L.  <a href="#">Welcome message from the WNM chairs</a>  (2013) <i>Proceedings - Conference on Local Computer Networks, LCN</i>, art. no. 6761233, pp. lxiii-lxiv.</p> <p><sup>c</sup> Technical University of Catalonia, Spain  <sup>ae</sup> Aalto University, Finland  (...)</p> <p>DOI: 10.1109/LCN.2013.6761233  Document Type: Editorial</p>

<p><b>Hasan, K.N.M., Rauma, K., Luna, A., Candela, J.I.,</b> Rodriguez, P.  <a href="#">Harmonic resonance damping in Wind Power Plant</a>  (2012) <i>2012 IEEE Energy Conversion Congress and Exposition, ECCE 2012</i>, art. no. 6342557, pp. 2067-2074.</p> <p><sup>a</sup> Technical University of Catalonia, C/Colom 1, 08222, Terrassa, Spain  <sup>b</sup> Aalto University, School of Electrical Engineering, Espoo, Finland</p> <p>DOI: 10.1109/ECCE.2012.6342557  Document Type: Conference Paper</p>
<p>Torres-Company, V., <b>Torres, J.P., Friberg, A.T.</b>  <a href="#">Shaping the ultrafast temporal correlations of thermal-like photons</a>  (2012) <i>Physical Review Letters</i>, 109 (24), art. no. 243905, .  Cited 4 times.</p> <p><sup>a</sup> School of Electrical and Computer Engineering, Purdue University, West Lafayette, IN 47907, United States  <sup>b</sup> ICFO-Institut de Ciències Fòniques, Castelldefells, 08860 Barcelona, Spain  <sup>c</sup> Department of Signal Theory and Communications, Universitat Politècnica Catalunya, Campus Nord D3, 08034 Barcelona, Spain  <sup>d</sup> Department of Applied Physics, Aalto University, Box 13500, FI-00076 Aalto, Finland  <sup>e</sup> Department of Physics and Mathematics, University of Eastern Finland, Box 111, FI-80101 Joensuu, Finland  <sup>f</sup> Microtechnology and Nanoscience Department, SE-41296 Gothenburg, Sweden  <sup>g</sup> Department of Microelectronics and Applied Physics, Royal Institute of Technology (KTH), Electrum 229, SE-164 40 Kista, Sweden</p> <p>DOI: 10.1103/PhysRevLett.109.243905  Document Type: Article</p>
<p>Ferrer, A., <b>Quintana, E., Filpponen, I., Solala, I., Vidal, T.,</b> Rodríguez, A., <b>Laine, J., Rojas, O.J.</b>  <a href="#">Effect of residual lignin and heteropolysaccharides in nanofibrillar cellulose and nanopaper from wood fibers</a>  (2012) <i>Cellulose</i>, 19 (6), pp. 2179-2193.  Cited 7 times.</p> <p><sup>a</sup> Department of Chemical Engineering, University of Cordoba, Cordoba, Spain  <sup>b</sup> Textile and Paper Engineering Department, Universitat Politècnica de Catalunya, 08222 Terrassa, Spain  <sup>c</sup> School of Chemical Technology, Department of Forest Products Technology, Aalto University, 00076 Aalto, Finland  <sup>d</sup> Department of Forest Biomaterials, North Carolina State University, Raleigh, NC 27695-8005, United States</p> <p>DOI: 10.1007/s10570-012-9788-z  Document Type: Article</p>
<p>Ferrer, A., <b>Quintana, E., Filpponen, I., Laine, J., Vidal, T.,</b> Jimenez, L., Rodriguez, A., <b>Rojas, OJ</b>  <a href="#">Effect of lignin in the properties of nanofibrillated cellulose (NFC) from birch pulp</a>  (2012) <i>11th International Biorelated Polymer Symposium / 243rd National Spring Meeting of the American-Chemical-Society (ACS)</i></p> <p><sup>a</sup> Department of Chemical Engineering, University of Cordoba, Cordoba, Spain  <sup>b</sup> Textile and Paper Engineering Department, Universitat Politècnica de Catalunya, 08222 Terrassa, Spain  <sup>c</sup> School of Chemical Technology, Department of Forest Products Technology, Aalto University, 00076 Aalto, Finland  <sup>d</sup> Department of Forest Biomaterials, North Carolina State University, Raleigh, NC 27695-8005, United States</p> <p>Document: Conference paper</p>
<p>Torres-Company, V., <b>Torres, J.P., Friberg, A.T.</b>  <a href="#">Shaping the bunching of thermal-like photons at ultrashort time scales</a>  (2012) <i>Frontiers in Optics, FIO 2012</i>, .</p> <p><sup>a</sup> School of Electrical and Computer Engineering, Purdue University, West Lafayette, 47906 IN, United States  <sup>b</sup> Department of Physics, Universitat Jaume I, 12071 Castello de la Plana, Spain  <sup>c</sup> ICFO-Institut de Ciències Fòniques, Universitat Politècnica de Catalunya, 08860 Castelldefells, Barcelona, Spain  <sup>d</sup> Department of Applied Physics, Aalto University, 00076 Aalto, Finland</p>

Document Type: Conference Paper
<p><b>Aalto, J., Syrjä, R., Ribas, C.A.</b>  <a href="#">Accurate stresses for homogeneous and composite beams</a>  (2012) <i>Civil-Comp Proceedings</i>, 99, .</p> <p><sup>a</sup> Department of Civil and Structural Engineering, Aalto University, Espoo, Finland  <sup>b</sup> School of Industrial Engineering, Barcelona Polytechnic University, Catalonia, Spain</p> <p>Document Type: Conference Paper</p>
<p><b>Hasan, M.K.N., Rauma, K., Luna, A., Candela, J.I., Rodriguez, P.</b>  <a href="#">Harmonic resonances damping using hybrid filter for WPP</a>  (2012) <i>IECON Proceedings (Industrial Electronics Conference)</i>, art. no. 6388549, pp. 1312-1319.</p> <p><sup>a</sup> Technical University of Catalonia, C/ Colom 1, 08222 Terrassa, Spain  <sup>b</sup> Aalto University, School of Electrical Engineering, Espoo, Finland  <sup>c</sup> Electrical and Electronics Eng., Universiti Teknologi PETRONAS, 31750 Tronoh, Perak, Malaysia</p> <p>DOI: 10.1109/IECON.2012.6388549  Document Type: Conference Paper</p>
<p>Martin-Neira, M., <b>Corbella, I., Torres, F., Kainulainen, J.</b>, Oliva, R., Closa, J., Cabot, F., Castro, R., Barbosa, J., Gutierrez, A., Anterrieu, E., Tenerelli, J., Martin-Porqueras, F., Buenadicha, G.  <a href="#">SMOS instrument performance and calibration</a>  (2012) <i>International Geoscience and Remote Sensing Symposium (IGARSS)</i>, art. no. 6350834, pp. 2864-2867.</p> <p><sup>a</sup> European Space Agency, ESTEC, Noordwijk, Netherlands  <sup>b</sup> Remote Sensing Laboratory, Universitat Politècnica de Catalunya, Barcelona, Spain  <sup>c</sup> Aalto University School of Electrical Engineering, Helsinki, Finland  <sup>d</sup> European Space Agency, ESAC, Villanueva de la Cañada, Spain  <sup>e</sup> EADS-CASA Espacio, Madrid, Spain  <sup>f</sup> CESBIO, Toulouse, France  <sup>g</sup> DEIMOS, Lisbon, Portugal  <sup>h</sup> IRAP, Toulouse, France  <sup>i</sup> CLS, Brest, France  <sup>j</sup> IDEAS, ESAC, Villanueva de la Cañada, Spain</p> <p>DOI: 10.1109/IGARSS.2012.6350834  Document Type: Conference Paper</p>
<p><b>Hasan, K.N.Md., Rauma, K., Luna, A., Candela, J.I., Rodriguez, P.</b>  <a href="#">Study on harmonic resonances and damping in wind power plant</a>  (2012) <i>ICIAS 2012 - 2012 4th International Conference on Intelligent and Advanced Systems: A Conference of World Engineering, Science and Technology Congress (ESTCON) - Conference Proceedings</i>, 1, art. no. 6306230, pp. 418-423.  Cited 1 time.</p> <p><sup>a</sup> Technical University of Catalonia, C/ Colom 1, 08222 Terrassa, Spain  <sup>b</sup> Aalto University, School of Electrical Engineering, Espoo, Finland</p> <p>DOI: 10.1109/ICIAS.2012.6306230  Document Type: Conference Paper</p>
<p><b>Rauma, K., Md Hasan, K.N., Gavrilita, C., Citro, C.</b>  <a href="#">Resonance analysis of a wind power plant with modal approach</a>  (2012) <i>IEEE International Symposium on Industrial Electronics</i>, art. no. 6237408, pp. 2042-2047.  Cited 1 time.</p> <p><sup>a</sup> Aalto University, School of Electrical Engineering, Finland  <sup>b</sup> Technical University of Catalonia, Renewable Electrical Energy Systems, Spain</p> <p>DOI: 10.1109/ISIE.2012.6237408</p>

<p>Document Type: Conference Paper</p>
<p><b>Husso, M., Dowhuszko, A., Hämäläinen, J., Pastore, A., Fonollosa, J.</b>  <a href="#">Balancing egoistic and altruistic transmit beamforming in femtocell networks</a>  (2011) <i>2011 Future Network and Mobile Summit, FutureNetw 2011</i>, art. no. 6095222, .</p> <p><sup>a</sup> Aalto University, Otakaari 5A, Espoo, 02150, Finland  <sup>b</sup> Technical University of Catalonia, C. Jordi Girona 31, Barcelona, 08034, Spain</p> <p>Document Type: Conference Paper</p>
<p><b>Kostiainen, J., Erkut, C., Piella, F.B.</b>  <a href="#">Design of an audio-based mobile journey planner application</a>  (2011) <i>Proceedings of the 15th International Academic MindTrek Conference: Envisioning Future Media Environments, MindTrek 2011</i>, pp. 107-113.</p> <p><sup>a</sup> Department of Signal Processing and Acoustics, School of Electrical Engineering, Aalto University, Finland  <sup>b</sup> Telecommunications Engineering, Universitat Politècnica de Catalunya, Barcelona, Spain</p> <p>DOI: 10.1145/2181037.2181056  Document Type: Conference Paper</p>
<p><b>Hasan, K.N.M., Rauma, K., Rodriguez, P., Ignacio Candela, J., Muñoz-Aguilar, R.S., Luna, A.</b>  <a href="#">An overview of harmonic analysis and resonances of large wind power plant</a>  (2011) <i>IECON Proceedings (Industrial Electronics Conference)</i>, art. no. 6119697, pp. 2467-2474.  Cited 1 time.</p> <p><sup>a</sup> Technical University of Catalonia, C/ Colom 1 08222, Terrassa, Spain  <sup>b</sup> Aalto University, School of Electrical Engineering, Espoo, Finland</p> <p>DOI: 10.1109/IECON.2011.6119697  Document Type: Conference Paper</p>
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