



# Antonios Deligiannakis

## Biographical Note

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School of Electrical and  
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### 1. About me

I am an Associate Professor of Computer Science at the School of Electrical and Computer Engineering of the Technical University of Crete, the Director of the Distributed Multimedia Information Systems And Applications (MUSIC) Laboratory, and a member of the Editorial Board at the “**Big Data Research**” Journal by ELSEVIER.

My research interests are in the broad area of Big Data Management Systems, including Big Data Analytics over data streams, distributed data processing, secure processing and query authentication over data outsourced to untrusted servers, distributed complex event processing in large scale systems, data synopses, approximate query processing and large scale data mining.

### 2. Education

Postdoc National & Kapodistrian University of Athens 2006 - 2007  
Department of Informatics and Telecommunications

Ph.D. University of Maryland, USA 5/2005  
Department of Computer Science

- GPA: 4.0/4.0.
- Thesis: *Accurate Data Approximation in Constrained Environments.*
- Advisor: Nick Roussopoulos

M.Sc. University of Maryland, USA 5/2001  
Department of Computer Science

- GPA: 4.0/4.0.
- Advisor: Nick Roussopoulos

Diploma of Electrical & Computer Engineering 6/1999  
National Technical University of Athens  
Department of Electrical and Computer Engineering

- GPA: 9.58/10.
- Thesis: *SISYPHUS: A Chunk-Based Storage Manager for OLAP Data Cubes.*
- Advisor: Timos Sellis

### 3. Positions

#### 3.1 Academic Positions

Associate Professor 3/2014 - now  
School of Electrical and Computer Engineering  
Technical University of Crete

Assistant Professor 4/2008 – 3/2014  
Department of Electronic and Computer Engineering  
Technical University of Crete

#### 3.2 Other Teaching Positions

Teaching – Position PD 407/80 2/2008 – 4/2008  
Course: “Structured Programming”  
Department of Electronic and Computer Engineering  
Technical University of Crete

Teaching – Position PD 407/80 Fall Semester 2007  
Course: “Systems Programming”  
Department of Informatics and Telecommunications  
National & Kapodistrian University of Athens

#### 3.3 Research Experience

Summer Intern, AT&T Labs-Research, USA June-August 2003

Visitor, AT&T Labs and Center for Discrete Mathematics  
& Theoretical Computer Science (DIMACS) September 2002

Graduate Research Assistant, University of Maryland, USA 9/2001-5/2005

### 4. Awards and Distinctions

#### 4.1 Paper Awards and Distinctions

Paper Distinction – ACM SIGMOD 2016

- The paper “Practical Private Range Search Revisited” that appeared in **ACM SIGMOD 2016** was ranked as one of the top papers and invited at the **ACM Transactions on Database Systems (ACM TODS)**, Best of SIGMOD/PODS’2016 special issue. At most 4 top papers in ACM SIGMOD receive this invitation.

Paper Distinction – ACM SIGMOD 2013

- The paper “Lightweight Authentication of Linear Algebraic Queries on Data Streams” that appeared in **ACM SIGMOD 2013** was ranked as one of the top papers and invited at the **ACM Transactions on Database Systems (ACM TODS)**, Best of SIGMOD/PODS’2013 special issue. At most 4 top papers in ACM SIGMOD receive this invitation.

Best Student Paper Award – IEEE ICDE 2009

- **Best Student Paper Award** at the 25th **IEEE International Conference on Data Engineering (ICDE)**, for the paper “Double Index Nested-loop Reactive Join for Result Rate Optimization”.

## 4.2 Other Honors and Awards

- University of Maryland – UMIACS Fellowship 1999-2001
- Recipient of one out of two UMIACS (University of Maryland Institute for Advanced Computer Studies) fellowships for first year graduate students.
- National Fellowship Foundation (IKY) 1996-1999
- Awards for academic excellence, Athens, Greece (4 times).

## 5. Publications

<http://www.softnet.tuc.gr/~adeli/pubindex.htm>

### 5.1 Editorship

- [ED1] G. Cormode, K. Yi, A. Deligiannakis, M.N. Garofalakis: Proceedings of the First International Workshop on Big Dynamic Distributed Data, Riva del Garda, Italy, August 30, 2013. CEUR Workshop Proceedings 1018, CEUR-WS.org 2013.

### 5.2 Tutorials

- [TU1] A. Artikis, N. Giatrakos, A. Deligiannakis, M.N. Garofalakis. Complex Event Processing in the Big Data Era. To appear at the VLDB Conference, Munich, Germany, August 2017.

### 5.3 Book Chapters

- [BC1] A. Deligiannakis. View Maintenance Aspects. Encyclopedia of Database Systems, 2009: 3328-3331.
- [BC2] A. Deligiannakis, Y. Kotidis. Exploiting Spatio-Temporal Correlations for Data Processing in Sensor Networks. Advances in Geosensor Networks, pages 45-65, ISBN 978-3-540-79995-5.

### 5.4 Refereed Journal Publications

- [J1] A. Deligiannakis, Y. Kotidis. Data Reduction Techniques in Sensor Networks. IEEE Data Engineering Bulletin on In-Network Query Processing/Data Management, 28(1):19-25, March 2005.
- [J2] A. Deligiannakis, Y. Kotidis, N. Roussopoulos. Processing Approximate Aggregate Queries in Wireless Sensor Networks. Information Systems, Volume 31(8), pages 770-792, December 2006.
- [J3] A. Deligiannakis, Y. Kotidis, N. Roussopoulos. Dissemination of Compressed Historical Information in Sensor Networks. VLDB Journal, 16(4):439-461 (2007).
- [J4] A. Deligiannakis, M. Garofalakis, N. Roussopoulos. Extended Wavelets for Multiple Measures. ACM Transactions on Database Systems (TODS), Vol. 32, No. 1, March 2007.
- [J5] A. Deligiannakis, Y. Kotidis, N. Roussopoulos. Bandwidth-Constrained Queries in Sensor Networks. VLDB Journal, 17(3):443-467 (2008).
- [J6] D. Sacharidis, A. Deligiannakis, T. Sellis. Hierarchically Compressed Wavelet Synopses. VLDB Journal, 18(1):203-231 (2009).
- [J7] P. Constantopoulos, C. Dallas, I. Androutsopoulos, S. Angelis, A. Deligiannakis, D. Gavrilis, Y. Kotidis, C. Papatheodorou. DCC&U: An Extended Digital Curation Lifecycle Model. International Journal of Digital Curation, Volume 4(1), pages 34-45, 2009.
- [J8] G. Cormode, A. Deligiannakis, M. Garofalakis, A. McGregor. Probabilistic Histograms for Probabilistic Data. Proceedings of the VLDB Endowment (PVLDB), 2(1): pages 526-537, 2009.
- [J9] M.A. Bornea, V. Vassalos, Y. Kotidis, A. Deligiannakis. Adaptive Join Operators for Result Rate Optimization on Streaming Inputs. IEEE Transactions on Knowledge and Data Engineering, 2010 (**Best of ICDE 2009 Special Issue**).
- [J10] A. Deligiannakis, Y. Kotidis, V. Stoumpos, A. Delis. Collection Trees for Event-Monitoring Queries. Information Systems, Volume 36, Issue 2, April 2011, Pages 386-405.
- [J11] A. Deligiannakis, Y. Kotidis. Detecting Proximity Events in Sensor Networks. Information Systems, Volume 36, Issue 7, Pages 1044-1063, November 2011.
- [J12] O. Papapetrou, M. Garofalakis, A. Deligiannakis. Sketch-based Querying of Distributed Sliding-Window Data Streams. Proceedings of the VLDB Endowment, 5(10): pages 992-1003, 2012.

- [J13] N. Giatrakos, Y. Kotidis, A. Deligiannakis, V. Vassalos, Y. Theodoridis. In-Network Approximate Computation of Outliers with Quality Guarantees. *Information Systems*, Volume 38, Issue 8, Pages 1285-1308, November 2013.
- [J14] S. Christodoulakis, M.N. Garofalakis, E.G.M. Petrakis, A. Deligiannakis, V. Samoladas, E. Ioannou, O. Papapetrou, S. Sotiriadis. *Data Management Research at the Technical University of Crete. SIGMOD Record* 42(4): 61-66 (2013).
- [J15] D. Keren, G. Sagy, A. Abboud, D. Ben-David, A. Schuster, I. Sharfman, A. Deligiannakis. Geometric Monitoring of Heterogeneous Streams. *IEEE Transactions on Knowledge and Data Engineering*, 26(8): 1890-1903 (2014).
- [J16] N. Giatrakos, A. Deligiannakis, M.N. Garofalakis, I. Sharfman, A. Schuster: Distributed Geometric Query Monitoring Using Prediction Models. *ACM Transactions on Database Systems*, 39(2): 16 (2014).
- [J17] S. Papadopoulos, G. Cormode, A. Deligiannakis, M.N. Garofalakis: Lightweight Query Authentication on Streams. *ACM Transactions on Database Systems*, 39(4): 30:1-30:45, 2014 (**Best of SIGMOD/PODS'2013 special issue**).
- [J18] O. Papapetrou, M.N. Garofalakis, A. Deligiannakis. Sketching distributed sliding-window data streams. *VLDB Journal*, 24(3): 345-368 (2015).
- [J19] I. Flouris, N. Giatrakos, A. Deligiannakis, M.N. Garofalakis, M. Kamp, M. Mock. Issues in complex event processing: Status and prospects in the Big Data era. *Journal of Systems and Software*, 127: 217-236 (2017).

## 5.5 Refereed Conference and Workshop Publications

- [C1] Y. Sismanis, A. Deligiannakis, N. Roussopoulos, Y. Kotidis. Dwarf: Shrinking the Petacube. In Proc. of the ACM SIGMOD International Conference on Management of Data, Madison, Wisconsin, USA, June 2002.
- [C2] Y. Sismanis, A. Deligiannakis, Y. Kotidis, N. Roussopoulos. Hierarchical Dwarfs for the Rollup Cube. In proceedings of ACM International Workshop on Data Warehousing and OLAP (DOLAP), New Orleans, USA, November 2003.
- [C3] A. Deligiannakis, N. Roussopoulos. Extended Wavelets for Multiple Measures. In Proc. of the ACM SIGMOD International Conference on Management of Data, San Diego, California, USA, June 2003.
- [C4] A. Deligiannakis, Y. Kotidis, N. Roussopoulos. Hierarchical in-Network Data Aggregation with Quality Guarantees. In proceedings of the 9th International Conference on Extending Database Technology (EDBT), Heraklion, Crete, Greece, 2004.
- [C5] A. Deligiannakis, Y. Kotidis, N. Roussopoulos. Compressing Historical Information in Sensor Networks. In Proc. of the ACM SIGMOD International Conference on Management of Data, Paris, France, June 2004.
- [C6] A. Deligiannakis, M. Garofalakis, N. Roussopoulos. A Fast Approximation Scheme for Probabilistic Wavelet Synopses. In Proc. of the 17th International Conference on Scientific and Statistical Database Management (SSDBM), Santa Barbara, USA, June 2005.
- [C7] Y. Kotidis, A. Deligiannakis, V. Stoumpos, V. Vassalos, A. Delis. Robust Management of Outliers in Sensor Network Aggregate Queries. In Proc. of the 6th Int. ACM Workshop on Data Engineering for Wireless and Mobile Access (*MobiDE*), Beijing, China, June 2007.
- [C8] V. Stoumpos, A. Deligiannakis, Y. Kotidis, A. Delis. Processing Event-Monitoring Queries in Sensor Networks. In Proc. of the 24th IEEE International Conference on Data Engineering (ICDE) – poster paper, Cancun, Mexico, April 2008.
- [C9] A. Deligiannakis, V. Stoumpos, Y. Kotidis, V. Vassalos, A. Delis. Outlier-Aware Data Aggregation in Sensor Networks. In Proc. of the 24th IEEE International Conference on Data Engineering (ICDE) – poster paper, Cancun, Mexico, April 2008.
- [C10] Antonios Deligiannakis, Yannis Kotidis, Vasilis Vassalos, Vassilis Stoumpos, Alex Delis. Another Outlier Bites the Dust: Computing Meaningful Aggregates in Sensor Networks. In Proc. of the of the 25th IEEE International Conference on Data Engineering (ICDE), Shanghai, China, March 2009.
- [C11] M.A. Bornea, V. Vassalos, Y. Kotidis, A. Deligiannakis. Double Index Nested-loop Reactive Join for Result Rate Optimization (**best student paper award**). In Proc. of the 25th IEEE International Conference on Data Engineering (ICDE), Shanghai, China, March 2009.
- [C12] A. Deligiannakis, Y. Kotidis, V. Stoumpos, A. Delis. Building Efficient Aggregation Trees for Sensor Network Event-Monitoring Queries. In Proc. of the 3rd International Conference on Geosensor Networks Oxford, United Kingdom, July 2009.
- [C13] N. Giatrakos, Y. Kotidis, A. Deligiannakis, V. Vassalos, Y. Theodoridis. TACO: Tunable Approximate Computation of Outliers in wireless sensor networks. In Proc. of the ACM SIGMOD International Conference on Management of Data, Indianapolis, Indiana, USA, June 2010.

- [C14] N. Giatrakos, Y. Kotidis, A. Deligiannakis. PAO: Power-Efficient Attribution of Outliers in Wireless Sensor Networks. In 7th VLDB Workshop on Data Management for Sensor Networks (DMSN), Singapore, September 2010.
- [C15] V. Dritsou, P. Constantopoulos, A. Deligiannakis, Y. Kotidis. Shortcut Selection in RDF Databases. In Proceedings of the 2nd International Workshop on Data Engineering meets the Semantic Web (DESWeb), Hannover, Germany, April 2011.
- [C16] M. Bornea, A. Deligiannakis, Y. Kotidis, V. Vassalos. Semi-Streamed Index Join for Near-Real Time Execution of ETL Transformations. In Proceedings of the 27th IEEE International Conference on Data Engineering (ICDE), Hannover, Germany, April 2011.
- [C17] V. Dritsou, P. Constantopoulos, A. Deligiannakis, Y. Kotidis. Optimizing Query Shortcuts in RDF Databases. In Proceedings of the 8th Extended Semantic Web Conference (ESWC), Heraklion, Greece, May-June 2011.
- [C18] S. Burdakis, A. Deligiannakis. Detecting Outliers in Sensor Networks using the Geometric Approach. In Proceedings of the 28th IEEE International Conference on Data Engineering (ICDE), Washington DC, USA, April 2012.
- [C19] N. Giatrakos, A. Deligiannakis, M. Garofalakis, I. Sharfman. Prediction-Based Geometric Monitoring over Distributed Data Streams. In Proceedings of the ACM SIGMOD International Conference on Management of Data, Scottsdale, Arizona, USA, May 2012.
- [C20] A. Arvanitis, A. Deligiannakis, Y. Vassiliou. Efficient Influence-Based Processing of Market Research Queries. In Proc. of ACM CIKM 2012, Maui, Hawaii, USA, October-November 2012.
- [C21] S. Papadopoulos, G. Cormode, A. Deligiannakis, M. Garofalakis. Lightweight Authentication of Linear Algebraic Queries on Data Streams (*Invited to ACM Transactions on Database Systems*). In Proc. of the ACM SIGMOD International Conference on Management of Data, New York City, New York, USA, June 2013.
- [C22] A. Deligiannakis, N. Giatrakos, N. Pallikarakis: Towards a prototype medical system for devices vigilance and patient safety. In Proc. of the IEEE Symposium on Computational Intelligence in Healthcare and e-health (CICARE), Orlando, Florida, December 2014.
- [C23] D. Keren, G. Sagy, A. Abboud, D. Ben-David, A. Schuster, I. Sharfman, A. Deligiannakis: Monitoring Distributed, Heterogeneous Data Streams: The Emergence of Safe Zones. International Conference on Applied Algorithms (ICAA), Kolkata, India, January 2014.
- [C24] A. Igglezakis, A. Deligiannakis, A. Bletsas: Geometric monitoring for CSI reduction in amplify-and-forward relay networks. In Proc. of the IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), Florence, Italy, May 2014.
- [C25] I. Flouris, N. Giatrakos, M.N. Garofalakis, A. Deligiannakis. Issues in Complex Event Processing Systems. In Proceedings of the 1st IEEE International Workshop on Real Time Data Stream Analytics (RTStreams'15), held in conjunction with IEEE BigDataSE-15, Helsinki, Finland, August 2015.
- [C26] S. Bothe, V. Manikaki, A. Deligiannakis, M. Mock. Towards Flexible Event Processing in Distributed Data Streams. In Proceedings of the Event Processing, Forecasting and Decision-Making in the Big Data Era (EPForDM) Workshop, held in conjunction with EDBT/ICDT, Brussels, Belgium, March 2015.
- [C27] D. Sacharidis, A. Deligiannakis. Spatial cohesion queries. In Proceedings of the 23rd ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems, Bellevue, WA, USA, November 2015.
- [C28] I. Flouris, V. Manikaki, N. Giatrakos, A. Deligiannakis, M.N. Garofalakis, M. Mock, S. Bothe, I. Skarbovsky, F. Fournier, M. Stajcer, T. Krizan, J. Yom-Tov, M. Volarevic. Complex event processing over streaming multi-cloud platforms: the FERARI approach (**demo paper**). In Proceedings of the 10th ACM International Conference on Distributed and Event-based Systems (DEBS), Irvine, CA, June 2016.
- [C29] I. Flouris, V. Manikaki, N. Giatrakos, A. Deligiannakis, M.N. Garofalakis, M. Mock, S. Bothe, I. Skarbovsky, F. Fournier, M. Stajcer, T. Krizan, J. Yom-Tov, T. Curin. FERARI: A Prototype for Complex Event Processing over Streaming Multi-cloud Platforms (**demo paper**). In Proceedings of the ACM SIGMOD/PODS Conference, San Francisco, CA, June 2016.
- [C30] N. Giatrakos, A. Deligiannakis, M.N. Garofalakis. Scalable Approximate Query Tracking over Highly Distributed Data Streams. In Proceedings of the ACM SIGMOD/PODS Conference, San Francisco, CA, June 2016.
- [C31] I. Demertzis, S. Papadopoulos, O. Papapetrou, A. Deligiannakis, M.N. Garofalakis. Practical Private Range Search Revisited (*Invited to ACM Transactions on Database Systems*). In Proceedings of the ACM SIGMOD/PODS Conference, San Francisco, CA, June 2016.

## 5.6 U.S. Patents

- [PA1] METHODS AND APPARATUS FOR REPRESENTING PROBABILISTIC DATA USING A PROBABILISTIC HISTOGRAM. Graham Cormode, Antonios Deligiannakis, Minos Garofalakis, Andrew McGregor. Granted.
- [PA2] Probabilistic Wavelet Synopses for Multiple Measures. Antonios Deligiannakis, Minos Garofalakis and Nick Roussopoulos. Granted.
- [PA3] Dwarf cube architecture for reducing storage sizes of multidimensional data Nick Roussopoulos, Yannis Sismanis, Antonios Deligiannakis and Yannis Kotidis. Granted.

## 6. Professional Service

### 6.1 Service to Journals

#### 6.1.1 Editorial Board in Journals

Antonios Deligiannakis is a member of the Editorial Board of the “**Big Data Research**” journal, published by **ELSEVIER**.

#### 6.1.2 Reviewer for Journals

Acronym - Title of Journal	Reviewer in Years...
TODS - ACM Transactions on Database Systems	2017, 2016, 2010, 2008, 2007, 2006
VLDBJ - VLDB Journal	2017, 2012
TKDE - IEEE Transactions on Knowledge and Data Engineering	2016, 2015, 2014, 2012, 2010, 2009, 2008, 2007, 2004
BigData - Big Data Research	2016
TPDS - <i>IEEE Transactions on Parallel and Distributed Systems</i>	2008
DPDB - Distributed and Parallel Databases	2012, 2010
TKDD - <i>ACM Transactions on Knowledge Discovery from Data</i>	2010
CPMC - <i>IEEE Transactions on Computers, Pervasive and Mobile Computing</i>	2009
Sensors	2009
KDE - <i>Knowledge &amp; Data Engineering</i>	2009
JCSS - Journal of Computer and System Sciences	2011
CN - <i>Communication Networks and Distributed Systems</i>	2008

### 6.2 Service to Conferences

#### 6.2.1 Conference Organizing Committee

##### 6.2.1.1 General Chair

1. First International Workshop on Big Dynamic Distributed Data (BD3), held in conjunction with VLDB 2013, Riva del Garda, Italy, August 30, 2013.
2. Event Processing, Forecasting and Decision-Making in the Big Data Era (EPForDM), held in conjunction with EDBT/ICDT 2015, Brussels, Belgium, March 27, 2015.

##### 6.2.1.2 Program Chair

1. Hellenic Data Management Symposium (HDMS), Athens, Greece, July 28-29, 2016.

### 6.2.1.3 Publicity Chair

1. 9th International ACM Workshop on Data Engineering for Wireless and Mobile Access (MobiDE), June 6, 2010, Indianapolis, IN, USA (in conjunction with SIGMOD/PODS 2010).
2. 23rd ACM International Conference on Information and Knowledge Management (CIKM 2014), Shanghai, China, November 3-7, 2014.

### 6.2.2 Conference Program Committee (PC) Member

Acronym - Conference Name	Years at PC
SIGMOD - ACM SIGMOD International Conference on Management of Data	2016, 2015, 2013
VLDB - Very Large Data Bases	2018, 2016, 2014, 2013, 2012
ICDE - IEEE International Conference on Data Engineering	2017, 2016, 2014, 2012, 2009
CIKM - ACM International Conference on Information and Knowledge Management	2016, 2015, 2014, 2012, 2010
EDBT - International Conference on Extending Database Technology	2017, 2016
BigData – IEEE International Conference on Big Data	2013
ECML/PKDD - European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases	2011
SDM - SIAM International Conference on Data Mining	2015, 2009
GSN - International Conference on Geosensor Networks	2011, 2009
MobiDE - ACM Workshop on Data Engineering for Wireless and Mobile Access	2011, 2010, 2009, 2008
DaWaK - International Conference on Data Warehousing and Knowledge Discovery	2011
MDM - International Conference on Mobile Data Management	2011
GEOProcessing - International Conference on Advanced Geographic Information Systems, Applications, and Services	2012, 2011
HDMS - Hellenic Data Management Symposium	2011, 2010, 2009
CSE - IEEE International Conference on Computational Science and Engineering	2010
ADBIS - East-European Conference on Advances in Databases and Information Systems	2010
SeNTIE - International Workshop on Sensor Networks Technologies for Information Explosion Era	2010, 2009, 2008
DOLAP - ACM International Workshop on Data Warehousing and OLAP	2009, 2008, 2006
WDPP - International Workshop on Data and Process Provenance	2009
NetDB - International Workshop on Networking Meets Databases	2008
DISN - International Workshop on Data Intensive Sensor Networks	2007

### 6.2.3 Referee for Conferences

- Conference referee for EDBT 2011, SIGMOD (2008), CIKM, ICDE, VLDB (2007), KDD (2007) and the Hellenic Data Management Symposium (HDMS)

## 7. Teaching Experience

### 7.1 Teaching

Technical University of Crete

- Course: “Structured Programming” 2008-2015
- Course: “Data Management and Processing in Sensor Networks” 2008-now
- Course: “Special Topics in Databases” 2008-now
- Course: “Database Systems” 2016-now

National & Kapodistrian University of Athens

2007-2008

- Course: “Systems Programming”

DBChat Organizer, University of Maryland, USA

2001-2004

- DBChat is a weekly seminar-type database group meeting. My duties included compiling the list of papers to be discussed, arranging class schedules, and putting the class material on the Web. DBChat was offered as a course in the Fall 2001 semester.

## 7.2 Students

### 7.2.1 PhD Students

Antonios Deligiannakis is currently supervising Ioannis Flouris, whose PhD topic is on “Achieving Scalability in Complex Event Processing Systems using In-Situ Processing” (Greek title: “Επιτυγχάνοντας Κλιμακωσιμότητα Σε Συστήματα Πολύπλοκης Επεξεργασίας Γεγονότων Μέσω Τοπικής Επεξεργασίας”).

### 7.2.2 MSc Students

Antonios Deligiannakis supervised/supervises the following MSc students:

Student	Title	Status
Ioannis Flouris	Suffix trees construction algorithms	Completed
Vasiliki Manikaki	Architecture and Implementation of a Distributed Complex Event Processing System	Completed
Konstantinos Tsakonas	BucDooP: Bottom Up Computation of Iceberg Data Cubes with Hadoop	Completed
Stylianos Mammias	Designing efficient algorithms for approximating probabilistic data	Completed
Ioannis Demertzis* * co-advisor (primary advisor: M. Garofalakis)	Practical secure and efficient range search	Completed
Antonios Inglezakis	Monitoring the Channel Status in Amplify-and-Forward Relay Networks using the Geometric Approach	Ongoing
Sabbas Burdakis	Outlier Detection in Sensor Networks	Ongoing

### 7.2.3 Undergraduate Students – Diploma Thesis Supervisor

Antonios Deligiannakis supervised the following undergraduate students during their diploma thesis: Smalis Sklavos, Chrysovalantis Kanellopoulos, Serafeim Mpousgos, Aleka Seliniotaki, Etyxios Vavourakis, Emmanouil Bogiatzis, Dionysios Kalogiropoulos, Sabbas Burdakis, Sofia Georgakaki, Antonios Inglezakis, George Palollis, Iakovina Zografou, Antonios Pougardis, Konstantinos Zarifis, Marina Mavrikou, Stella Maropaki, Christina Christodoulaki, Ioannis Papadakis, Dimitrios Tzimas, Dimitra Karatza

... and is currently supervising 17 undergraduate students, on various topics, with the majority of these diploma theses being on Big Data systems.

## 8. Participation in Funded Projects

### 8.1 EU Projects

- *FERARI - Flexible Event Processing for Big Data Architectures (FP7-ICT-2013 (Scalable Data Analytics Objective) Collaborative STREP Project, 2014--2017)*  
Role: Co-principal investigator for TUC  
(Principal Investigator: Minos Garofalakis)
- *LEADS - Large-Scale Elastic Architecture for Data-as-a-Service (FP7-ICT-2011 Collaborative STREP Project, 2012--2015)*  
Role: Main investigator for TUC/TSI: work on efficient result authentication of results provided by untrusted servers to which data and computation have been outsourced.  
(Principal Investigator: Minos Garofalakis)
- *LIFT - Using Local Inference in Massively Distributed Systems (FP7-ICT-2009 FETOpen Collaborative STREP Project, 2010--2013)*  
Role: Main Investigator for TUC  
(Principal Investigator: Minos Garofalakis)



## **8.2 National Projects**

- *EIPAS (05/2013-09/2015): Thales.  
Role: Principal Investigator for TUC*
- *EICOS (06/2013-09/2015): Thales.  
Role: Principal Investigator for TUC*
- *BLASE (2014-2017) - Backscatter Networks for Large-Scale Environmental Sensing: ERC-04  
Role: Main Investigator for TUC  
(Principal Investigator: Aggelos Bletsas)*
- *AquaNet (2013-2015): Co-Operation (Συνεργασία)  
Role: Main Investigator for TUC  
(Principal Investigator: Eftychios Koutroulis)*

## **9. Personal Info**

- Greek citizen
- Born in Athens, Greece
- Married – 1 child