

CURRICULUM VITEA

1. PERSONAL DATA

Name: Hadi Abou-Chakra
Date of Birth: April 6, 1965
Place of Birth: Lebanon
Nationality: British, Lebanese
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2. ACADEMIC/PROFESSIONAL PARTICULARS

(a) Academic Qualification

- PhD, Process Engineering, 1998, University of Surrey, UK.
- MSc, Structural Engineering, 1993, University of Surrey, UK.
- BSc, Civil Engineering, Beirut Arab University, Lebanon (1988).

(b) Academic Honors and Awards

- Recognition of Outstanding Applied Industrial Engineering Research and Exceptional Academic Service in Lebanon, American University of Beirut, 2016.
- Recognition of Outstanding Achievement for successfully obtaining accreditation of the industrial engineering program by the ABET for eight years, Beirut Arab University, 2018.

(c) Membership of Professional Bodies

Order of Engineers and Architects in Lebanon, member, (1989).

(d) Language Proficiency

- English – fluent.
- Arabic – fluent.
- French – good working knowledge.

3. CAREER DETAILS

(a) Academic Positions Held

- Associate Professor, Department of Industrial Engineering and Engineering Management, Faculty of Engineering, Beirut Arab University, Lebanon, (2/2007 – present).
- Part-time Professor, Department of Mechanical Engineering, Faculty of Arts and Engineering, American University of Beirut, Lebanon, (9/2008 – 6/2017).
- Director of Planning and Development, Modern University for Business & Science (formerly MECAT), Lebanon, (5/2004 – 1/2007).
- Senior Research Fellow, Department of Chemical and Industrial Engineering, School of Engineering, University of Surrey, UK, (8/1997 – 4/2004).

(b) Professional/Industrial Positions Held

Project coordinator, "Green Energy for Green Companies" Project – funded by EU (ENPI CBCMED) program, Beirut Arab University, Lebanon. (2/2013 – 8/2015).

(c) Administrative Positions Held

Chairperson, Department of Industrial Engineering and Engineering Management,
Faculty of Engineering, Beirut Arab University, Lebanon, (2/2012 – present).

4. TEACHING

(a) Summary of the Courses Taught

- INME204, Introduction to Industrial Engineering.
- INME322, Organization Design.
- INME324, Production and Operation Management.
- INME341, Safety Engineering.
- INME416, Industrial Packaging.
- INME422, Engineering Logistics and Supply Chain.
- INME434, Statistical Quality and Process Control.
- INME442, Ergonomics.
- INME500, Research Methodology.
- INME601, Project Planning and Time Management.
- INME602, Project Cost Management.
- MECH421, Manufacturing Processes I.
- MECH521, Manufacturing Processes II.
- MECH619, Quality Control in Manufacturing Systems.

(b) Participation in Academic Accreditation

Industrial Engineering, Department Accreditation Team Leader, Beirut Arab University, ABET, (2017/2025).

(c) Research Students Supervised/Trained

<u>Level</u>	<u>Number of Trainees</u>
Postdoctoral Fellows	0
PhD Students	0
Master Students	21
Undergraduate Students	80

(d) Participation in Thesis and Oral Examination Committees

<u>Level</u>	<u>Number of Trainees</u>
PhD Students	1
Master Students	10

(e) Training

Fundamentals of Program Assessment Workshop, ABET, Dubai, February 2023.
Advanced Program Assessment Workshop, ABET, Dubai, February 2023.

5. RESEARCH

(a) Research Interests

Industrial and Manufacturing Engineering
Engineering Management

(b) Publications/Citations Data

<u>Type of Publication</u>	<u>Number of Publications</u>
Articles in International Refereed Journals	30
Conference Papers	25
Books/Book Chapters	2
Edited Books	0

Patents
Others (specify)

0

Citation Source
Google Scholar

Number of Citations
531

(c) Research Grants

- Multilateral cross-border cooperation "Mediterranean Sea Basin Programme", Beirut Arab University Project co-ordinator, "Green Energy for Green Companies" Project – (ENPI CBC Med) EU funded program, Lebanon. (2/2013 – 8/2015), €180,000.
- Research grant, Second Supervisor, Valorization of Essential Oils From Industrial By-Products, Lebanese Industrial Research Achievements program – Ministry of Industry, (9/2019 – 4/2020), \$2500.
- Research grant, Lead Supervisor, Q-Zan, Lebanese Industrial Research Achievements program – Ministry of Industry, (9/2018 – 4/2019), \$2000.
- Research grant, Lead Supervisor, Independent Standing Wheelchair, Lebanese Industrial Research Achievements program – Ministry of Industry, (9/2016 – 4/2017), \$1000.

6. SERVICE

(a) Membership of Institutional, National, or International Scientific Advisory Boards

- Lebanese Industrial Research Achievements program – Ministry of Industry in Lebanon, Administrative Board, member, (2012 – 2020).
- Order of Engineers and Architects in Lebanon, Oil and Gas committee, member, (2014 – 2020).

(b) Membership of Conference Committees

Technical Committee, Particulate Systems Analysis, Stratford upon Avon, UK, September 21 – 23, 2005.

(c) Service as Reviewer

Journals

- Transactions of FAMENA, University of Zagreb, (since: 03/2021).
- European Scientific Journal, European Scientific Institute, (since: 01/2019).
- Journal of Applied Research and Technology, Elsevier, (since: 03/2016)

Conferences

- IEOM 2021, 11th Annual Industrial Engineering and Operations Management Conference, (Singapore), March 7-11, 2021.
- IEOM 2019, 9th International Conference on Industrial Engineering and Operations Management (Bangkok, Thailand), March 5-7, 2019.
- 24th LAAS International Science Conference, The Lebanese Association For The Advancement Of Science, (Beirut, Lebanon), April 25-26, 2018.
- 22nd LAAS International Science Conference, The Lebanese Association For The Advancement Of Science, (Beirut, Lebanon), April 14-15, 2016.
- IEOM 2015, 5th International Conference on Industrial Engineering and Operations Management (Dubai, UAE) March 3-5, 2015.

(d) Invited Presentations at Scientific Meetings/Workshops

- Risk Management in Education Industry, Online Training Workshop, Risk

- Control SAS, (Paris, France), 4 July 2022.
- Forecasting and Aggregate Planning, Online Training Workshop, Risk Control SAS, (Paris, France), 4-5 September 2021.
- Entrepreneurship in Technology, TEMPUS program workshop, (Brussels, Belgium), 17-21 June 2013.
- Continuing Education at Beirut Arab University, Continuing Education in Mediterranean Sea Area workshop, (Napoli, Italy), 2012.
- Towards Building an Integrated National System to Ensure the Quality of Higher Education in Lebanon, American University of Beirut, (Beirut, Lebanon), April 29-30, 2011.
- Safety at Faculty of Engineering Building, Beirut Arab University, (Debbieh, Lebanon), January 20, 2011.
- The future of e-learning at Beirut Arab University, The 16th International Conference on Technology Supported Learning & Training ONLINE EDUCA – (Berlin, Germany), December 1-3, 2010.
- Effective Teaching and Learning in Higher Education Program, American University of Beirut, (Beirut, Lebanon), December 10, 2010.
- Lifelong Learning for Adults in the Mediterranean Area seminar, Università degli Studi di Napoli, (Napoli, Italy), July 9, 2010.

(e) University Service

- Beirut Arab University, Lebanon, (2/2012 – present), Faculty of Engineering board, member.
- Beirut Arab University, Lebanon, (2/2012 – present), Faculty of Engineering ABET Accreditation Committee, member.
- Beirut Arab University, Lebanon, (2/2012 – 8/2020), Faculty of Engineering Disciplinary Committee, member.
- Beirut Arab University, Lebanon, (2/2015 – present), Faculty of Engineering Safety Committee, Head of Committee.
- Beirut Arab University, Lebanon, (2/2016 – present), Faculty of Engineering Library Committee, Head of Committee.

(f) Service to Profession/Industry

- IBC for Waste Treatment, Lebanon, Technical Advisor for defining new techniques for recycling grits and light residues. (2015 – 2020).
- Staunch Machinery, Lebanon, Technical Advisor for defining new techniques for recycling grits and light residues. (2017 – 2019).

7. LIST OF PUBLICATIONS

(a) International Refereed Journals

1. R. Abdel Samad, N. El Darra, A. Al Khatib, **H. Abou Chakra**, A. Jammoul, and K Raafat. Novel dual-function GC/MS aided ultrasound-assisted hydrodistillation for the valorization of Citrus sinensis by-products: phytochemical analysis and anti-bacterial activities. *Sci Rep* 13, 12547 (2023).
2. R. Fayad and **H. Abou Chakra**. Predictive diagnosis system for machine faults based on vibration analysis. *Condition Monitor*: 411, (2021).
3. R. Fayad and **H. Abou Chakra**. Optimization of Supermarket Checkout Counters Using Integrated Greedy Algorithm. *BAU Journal - Science and Technology*: Vol. 2 (2), Article 5 (2021).
4. **H. Abou Chakra**. Using Complexity Index Method to Manage Manufacturing Related Problems. *Engineering Management in Production and Services (EMPAS)*: Vol. 13 (2); pp. 46-53 (2021).
5. R. Fayad and **H. Abou Chakra**. Emergency Vehicles Allocation Model For Urban City. *BAU Journal - Science and Technology*: Vol. 1 (2), Article 1 (2020).
6. **H. Abou Chakra**. The Impact of Design Changes in Construction Projects on The Cost Charged by Consultant Offices. *BAU Journal - Science and Technology*: Vol. 1 (1), Article 2 (2019).
7. **H. Abou Chakra**, and A. Ashi. Comparative Analysis of Design/Build and Design/Bid/Build Project Delivery Systems in Lebanon. *Journal of Industrial Engineering International*, Volume 15 (1); pp. 147-152 (2019).
8. **H. Abou Chakra**, and A. Ashi. Evaluation of Risk Indicators and Techniques in Construction Project Management. *Journal of Applied Sciences, Engineering and Technology*, volume 14, issue: 5, pp. 170-175 (2017).
9. **H. Abou Chakra**, A. Tannir, and A.T. Ashi, "Validating the Integration among Project Management Knowledge Areas in Lebanon" *International Journal of Innovation, Management and Technology* vol. 8, no. 1, pp. 38-42 (2017).
10. **H. Abou Chakra** and M. Machaka. Allocation Solutions for Recycled Municipal waste Aggregates. *European Scientific Journal*, volume 11, No: 26 (2015).
11. **H. Abou-Chakra** and R. Fayad. On-Line Quality Control Filtration System Used in Hydraulic Oil Lubrication Process. *European Scientific Journal*, volume 10, No: 21 (2014).
12. M. Machaka, H. Basha, **H. Abou Chakra**, and A. Elkordi. Alkali Treatment of Fan Palm Natural Fibres for Use in Fibre Reinforced Concrete. *European Scientific Journal*, volume 10, No: 12 (2014).
13. **H. Abou-Chakra** and S.F. Nakhle. The Role of Culture in Ethical Decision Making of Lebanese Managers. *Leaders Digest*, (2006).
14. P Chapelle, N Christakis, J Wang, N Strusevich, M K Patel, M Cross, **H Abou-Chakra**, J Baxter, U Tuzun. Application of simulation technologies in the analysis of granular material behaviour during transport and storage. *Proceedings of IMechE. Journal of Process Mechanical Engineering*, Part E. Volume 219 Number 1, pp43 (2005).
15. **H Abou-Chakra**, P Chapelle, U Tüzün, J Baxter, M K Patel, M Cross, I. Bridle and M.S.A. Bradley. Sampling Issues in Assessing Particle Degradation in Pneumatic Conveying Systems. *Particle & Particle Systems Characterization*, Vol. 21, Issue 1, pp 39-46 (2004).
16. P Chapelle, **H Abou-Chakra**, N Christakis, I. Bridle, M K Patel, J Baxter, U Tuzun, M Cross. Numerical Predictions of Particle Degradation in Industrial Scale Pneumatic Conveyors. *Powder Technology*, Vol. 143-144, pp 321-330 (2004).
17. **H. Abou-Chakra**, J. Baxter and U. Tüzün. Three-Dimensional Pseudo Particle Shape Descriptors for Computer Simulation of Non-Spherical Particulate Assemblies. *Advanced Powder Technology*, Vol. 15, No 1, pp 63-77 (2004).

18. P. Chapelle, **H. Abou-Chakra**, N. Christakis, M.K. Patel, M. Cross, A. Abu-Nahar and U. Tüzün. Computational Model for Prediction of Particle Degradation During Dilute Phase Pneumatic Conveying, The Use of a Laboratory Scale Degradation Tester for the Determination of Degradation Propensity. *Advanced Powder Technology*, Vol. 15, No 1, pp 13-29 (2004).
19. P. Chapelle, N. Christakis, **H. Abou-Chakra**, U. Tüzün, I. Bridle, M.S.A. Bradley, M.K. Patel and M. Cross. Computational Model for Prediction of Particle Degradation During Dilute Phase Pneumatic Conveying, Modelling of dilute phase pneumatic conveying. *Advanced Powder Technology*, Vol. 15, No 1, pp 31-49 (2004).
20. **H. Abou-Chakra**, U. Tüzün, I. Bridle, M.C. Leaper, M.S.A. Bradley and A.R. Reed. An investigation of particle degradation by impact within a centrifugal accelerator type degradation tester. *Proceedings of IMechE. Journal of Process Mechanical Engineering, Part E*. Vol. 217, No. 3, pp 257-266 (2003).
21. M.C. Leaper, R.J. Berry, M.S.A. Bradley, I. Bridle, A.R. Reed, **H. Abou-Chakra** and U. Tüzün. Measuring the Tensile Strength of Caked Sugar Produced From Humidity Cycling. *Proceedings of IMechE. Journal of Process Mechanical Engineering, Part E*. Vol. 217, No. 1, pp 41-47 (2003).
22. **H. Abou-Chakra**, U. Tüzün, I. Bridle, M. Leaper, M.S.A. Bradley and A.R. Reed. Assessing the Potential of a Fine Powder to Segregate Using Laser Diffraction and Sieve Particle Size Measuring Techniques. *Advanced Powder Technology*, Vol. 14, No 2, pp 167-177 (2003).
23. N. Christakis, M.K. Patel, M. Cross, U. Tüzün, J. Baxter and **H. Abou-Chakra**. Predictions of Segregation of Granular Material with the aid of PHYSICA, a 3-D Unstructured Finite-Volume Modelling Framework *International Journal for Numerical Methods in Fluids*, Vol. 40, pp 281-291 (2002).
24. M.C. Leaper, M.S.A. Bradley, I. Bridle, A.R. Reed, **H. Abou-Chakra**, J.A.S. Cleaver, and U. Tüzün. Constructing an Engineering Model for Moisture Migration in Bulk Solids as a Prelude to Predicting Moisture Migration Caking, *Advanced Powder Technology*, Vol. 13, No 4, pp 411-424 (2002).
25. **H. Abou-Chakra** and U. Tüzün. Microstructural Blending of Coal to Enhance Flowability. *Powder Technology*, Vol. 111, issue 3, pp 200-209 (2000).
26. J. Baxter, **H. Abou-Chakra**, U. Tüzün and B. Mills Lamprey. A DEM Simulation and Experimental Strategy for Solving Fine Powder Flow Problems, *Trans. IChemE*. Vol. 78, Part A, pp 1019-1025 (2000). (This paper has been awarded by the Institution of Chemical Engineers as the best research paper in ChERD the international journal published by the IChemE for 2001).
27. **H. Abou-Chakra** and U. Tüzün. Coefficient of Friction of Binary Granular Mixtures in Contact with a Smooth Wall PART I: Direct Shear Box Measurements of the Effects of Particle Size Ratio and Particle Surface Roughness. *Chemical Engineering Science* 54, pp 5901-5912 (1999).
28. **H. Abou-Chakra** and U. Tüzün. Coefficient of Friction of Binary Granular Mixtures in Contact with a Smooth Wall PART II: Microstructural Model Describing the Effects of Packing Fraction and Load Distribution on the Wall Friction of Smooth, Elastic Spheres. *Chemical Engineering Science*, 54, pp 5913-5925 (1999).

(b) Conferences Papers

1. R. Fayad and **H. Abou-Chakra**. Predictive Diagnosis System for Machine Faults Based on Vibration Analysis, 1st World Congress on Condition Monitoring (WCCM 2017), London, UK. pp3 34. ISBN: 978-1-5108-4475-9 (2017).
2. **H. Abou Chakra**, A. Tannir, and A. Ashi. Validating the Integration among Project Management Knowledge Areas in Lebanon. 7th International Conference on Construction and Project Management (ICCPM2016). Turku University of Applied Sciences, Turku, Finland (2016).

3. K. F. Bou Hamdan, R. Harkouss, **H. Abou Chakra**. An Overview Of Extended Reach Drilling: Focus On Design Considerations and Drag Analysis. Gas & Oil International Conference, IEEE Conference Publications Mediterranean, pp1-4. Meshref, Lebanon (2015).
4. **H. Abou-Chakra** and R. Fayad. Lean Production for a Freezing Potatoes Factory. The 5th International Conference on Industrial Engineering and Operations Management (IEOM), Dubai, UAE (2015).
5. **H. Abou-Chakra**, A. Tanir, and A. Ashi. Validating the Integration between Project Risk Management and Project Quality Management in Practice, A case Study of Lebanese Projects. International Conference on Mechanical, Architectural and Civil Engineering, Dubai, UAE (2013).
6. R. Fayad and **H. Abou-Chakra**. Genetic Algorithm Enhanced Neural Network Applied to Tool Condition Monitoring in Drilling Process, The CM 2013 and MFPT 2013, Krakow, Poland (2013).
7. **H. Abou-Chakra**. Assessing the Effect of Temperature on Fabric Washing Powder under Stress. 8th International Conference on Applied Mechanics, Materials, and Manufacturing. Muscat, Sultanate of Oman, (2010).
8. S.F. Nakhle and **H. Abou-Chakra**. The Role of Culture in Ethical Decision Making – The Case of Lebanese Managers, European Academy of Management, EURAM. Paris, France (2007).
9. S.F. Nakhle and **H. Abou-Chakra**. Transnational Education in Lebanon, the Cultural Effect using Hofstede’s Cultural Dimensions. International Conference on Global Integration of Graduate Programme, GIGP2005. Irkustk, Russia (2005).
10. G. Abou Khalil and **H. Abou-Chakra**. Characteristics of the E-learner and Readiness of Lebanese Students for E-learning Experience Conference on Global Integration of Graduate Programme, GIGP2005. Irkustk, Russia (2005).
11. **H. Abou-Chakra**, B. Kaissi and A. Al-Soufi. Education with Global Perspective. International Conference on Global Integration of Graduate Programme, GIGP2004. Amman, Jordan, (2004).
12. **H. Abou-Chakra**, J. Baxter, U. Tüzün, P. Chapelle, I. Bridle, F. Farnish, M.S.A. Bradley and A. Reed. Measuring Particle Degradation by Impact Using Bench-Scale tester. 8th International Conference on Bulk Materials Storage, Handling and Transportation. Wollongong, Australia, (2004).
13. I.A. Bridle, M.S.A. Bradley and A.R. Reed, **H. Abou-Chakra**, U. Tüzün,, I. Hayati and M.R. Phillips. Non-Segregating Blended Fertilizer Development: A New Predictive Test for Optimising Granulometry. The International Fertilizer Society - Proceeding 547. York, UK, (2004).
14. I. Bridle, F. Farnish, M.S.A. Bradley, A. Reed, **H. Abou-Chakra**, U. Tüzün, P. Chapelle and M.K. Patel. Measuring Rolling Segregation Utilising a Bench-Scale Tester. 8th International Conference on Bulk Materials Storage, Handling and Transportation. Wollongong, Australia, (2004).
15. **H. Abou-Chakra**, J. Baxter, U. Tüzün, P. Chapelle, M.K. Patel, I. Bridle, M.S.A. Bradley and A. Reed. Degradation Toolkit for Predicting Degradation of Particulate Solids in Lean Phase Pneumatic Conveyors. International Conference for Particle Technology, PARTEC 2004, Nuremberg, Germany (2004).
16. R.J. Berry, M.S.A Bradley, A.R. Reed, I. Bridle, **H. Abou-Chakra**, U. Tüzün, and M.C. Leaper. Comparison of Cake Strength Failure Measurements Obtained for Sugar, The 4th International Conference for Conveying and Handling of Particulate Solids (CHoPS), Budapest, pp4.110-4.115 (2003).
17. P. Chapelle, N. Christakis, **H. Abou-Chakra**, U. Tüzün, I. Bridle, M.S.A. Bradley, M.K. Patel, M. Cross. Computational Modelling of Particle Degradation in dilute phase pneumatic conveyors. In: V. Kumar, M.L. Gavrilova, C.J.K. Tan, P.L. Ecuver (Eds). Lecture Notes in Computer Science 2667: Computational Science and Its

Applications-ICCSA 2003, Springer-Verlag Berlin Heidelberg, pp. 493-502, ISBN 3-540-40155-5 (2003).

18. J. Baxter, T. Gröger, **H. Abou-Chakra**, U. Tüzün, N. Christakis, M.K. Patel, M. Cross. Micro-Mechanical Parameterisation for Continuum Modelling of Granular Material Using the Discrete Element Method. Proceeding of the Fifth World Congress on Computational Mechanics (WCCM), H.A Mang, F.G. Rammerstorfer, J. Eberhardsteiner (Eds), Vienna University of Technology, Austria, ISBN 3-9501554-0-6 (2002),
19. N. Christakis, P. Chapelle, M.K. Patel, J. Wang, M. Cross, J. Baxter, T. Gröger, **H. Abou-Chakra**, U. Tüzün, I. Bridle and M. Leaper. Mathematical Modelling of the Behaviour of Granular Material in a Computational Fluid Dynamics Framework using Micro-Mechanical Models. Proceeding of the Fifth World Congress on Computational Mechanics (WCCM), H.A Mang, F.G. Rammerstorfer, J. Eberhardsteiner (Eds), Vienna University of Technology, Austria, ISBN 3-9501554-0-6 (2002),
20. N. Christakis, P. Chapelle, M.K. Patel, M. Cross, I. Bridle, **H. Abou-Chakra** and J. Baxter. Utilising Computational Fluid Dynamics (CFD) for the Modelling of Granular Material in Large-Scale Engineering Processes. In: P.M.A. Sllot, C.J.K. Tan, J.J. Dongara, A.G. Hoekstra (Eds). Lecture Notes in Computer Science 2329: Computational Science-ICCS 2002, Springer-Verlag Berlin Heidelberg, p. 743-752, ISBN 3-540-43591-3 (2002)
21. N. Christakis, M.K. Patel, M. Cross, U. Tüzün, J. Baxter and **H. Abou-Chakra**. Continuum Modelling of Granular Flows using PHYSICA, a 3-D Unstructured, Finite-Volume Code. In: M. Cross, J.W. Evans, C. Bailey (Eds) Computational Modelling of Materials, Minerals and Metals Processing, San Diego, CA, TMS, pp.129-138, ISBN 0-87339-513-1 (2001).
22. **H. Abou-Chakra** and U. Tüzün. Effect of Particle Size Distribution on the Handling Properties of Blended Coal. Proceeding of the 7th International Conference on Bulk Materials Storage, Handling and Transportation, Newcastle, Australia, ISBN 0-85825-816-1 (Sep. 2001).
23. **H. Abou-Chakra** and U. Tüzün. Effect of Particle Size Distribution and Surface Moisture on Flow properties of Coal. Proceeding of the International Symposium on Reliable Flow of Particulate Solids III, Porsgrunn, Norway, pp 57-64, ISBN 82-7206-187-2 (Aug. 1999).
24. **H. Abou-Chakra**, U. Tüzün and D. M. Heyes. Effect of Particle Size and Surface Roughness on Wall Friction of Particulate Materials, Proceeding of the 6th International Conference on Bulk Materials Storage, Handling and Transportation, Wollongong, NSW, Australia, pp 79-85, ISBN 185825-696-7 (Sep. 1998).
25. **H. Abou-Chakra**, U. Tüzün and D. M. Heyes. Effect of Particle Size and Surface Roughness on Wall Friction of Particulate Materials, Proceeding of the World Congress on Particle Technology Event, Brighton, UK (June 1998).
26. **H. Abou-Chakra** and U. Tüzün. Wall Friction of Poly-Disperse Particulate Solids, Proceeding of the 1997 Jubilee Research Event IChemE, Nottingham, UK, Vol. 1, pp 565-568, ISBN 0-85295-389-5 (April 1997).

(C) Books/Book Chapters

1. A. Yassin and **H. Abou Chakra**. The Advancement of the Industrial and Systems Engineering Discipline in Lebanon. Maynard's Industrial and Systems Engineering Handbook, 6th Edition. McGraw-Hill Education, ISBN 978-1260461565 (August 26, 2022).
2. P. Chapelle, N. Christakis, **H. Abou-Chakra**, U. Tüzün, I. Bridle, M.S.A. Bradley, M.K. Patel, M. Cross. Computational Modelling of Particle Degradation in dilute phase pneumatic conveyors. In: V. Kumar, M.L. Gavrilova, C.J.K. Tan, P.L. Ecuyer (Eds). Lecture Notes in Computer Science 2667: Computational Science and Its

Applications-ICCSA 2003, Springer-Verlag Berlin Heidelberg, pp. 493-502, ISBN 3-540-40155-5. (doi:10.1007/3-540-44839-X_53) (2003).