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Education

- PhD in Computer Science, University of São Paulo, São Carlos-SP, Brazil.   2006-2011
  Thesis title: "*A content personalization architecture based on peer-level annotations*".
  Advisor: Prof. Dr. Rudinei Goularte.

  PhD candidate visitor at Centrum Wiskunde & Informatica (CWI), The Netherlands.   2009
  Advisor: Prof. Dr. Pablo Cesar.

- MSc in Computer Science, University of São Paulo, São Carlos-SP, Brazil.   2004-2006
  Dissertation title: "*Live video adaptation supported by context information*".
  Advisor: Prof. Dr. Rudinei Goularte.

- BSc in Computer Science, State University of Londrina, Londrina-PR, Brazil.   2000-2004

Work History

- **Associate Professor,** University of São Paulo, São Carlos-SP, Brazil.   2018-Present

- **Assistant Professor**, University of São Paulo, São Carlos-SP, Brazil.   2011-2018

- **Software Developer**, Wernher von Braun Advanced Research Center, Campinas-SP, Brazil.   2008-2011

- **Instructor**, Federal University of São Carlos, São Carlos-SP, Brazil.   2007

Teaching

University of São Paulo
- Since 2011 I have been lecturing the following disciplines: Algorithms and Data Structures, Algorithms Project, Computer Science Introduction I and II, File Organization, Human-Computer Interaction, Information Retrieval (for graduate students), Multimedia (for undergraduate and graduate students), Hypermedia, Object Oriented Programming, Recommender Systems (for undergraduate and graduate students), Web Programming Techniques.

Federal University of São Carlos
- In 2007 I lectured the following disciplines: Computer Science Introduction I and Programming Languages Paradigms.

Funded Projects

- **Semantic Organization of Collaborative Users' Annotations Applied in Recommender Systems**   2016-Present
  Founded by FAPESP agency, proc. number: 2016/20280-6.
  The project aims to investigate how to semantically organize the huge amount of data produced by users in order to improve the accuracy of recommender systems.

- **Exploring Collaborative Annotations in Hybrid Recommender Systems**   2014-2016
  Founded by FAPESP agency, proc. number: 2013/22547-1.
  The project aims to investigate the use of collaborative annotations to enrich users and items' descriptions for recommendation tasks.

- **Advanced Methods for Multimedia Content Selection**   2012-2014
  Founded by FAPESP agency, proc. number: 2011/17366-2.
  The project aims to investigate how different users' interactions with multimedia content can be exploited to augment recommender systems.

- **The 2014 Web Intelligence Conference - WIC 2014**   2014
  Founded by CAPES agency, proc. number: AEX 4796/14-4.
  This grant was obtained to support the participation on the scientific conference WIC 2014.

Publications

Journal Papers

- Costa, A. F.; Manzato, M. G.; Campello, R. J. G. B. Ensemble Clustering Approaches Applied in Group-based Collaborative Filtering Supported by Multi- ple Users' Feedback. Journal of Information and Data Management, 8(3):180–196, 2017.
- D'Addio, R. M.; Domingues, M. A.; Manzato, M. G. Exploiting feature extraction techniques on users' reviews for movies recommendation. Journal of the Brazilian Computer Society, 23(7): 1–16, 2017.
- Manzato, M. G.; Domingues, M. A.; Costa, A. F.; Sundermann, C. V.; D'Addio, R. M.; Conrado, M.; Rezende, S. O.; Pimentel, M. G. P. Mining Unstructured Content for Recommender Systems: an Ensemble Approach. Information Retrieval (Boston), p. 1-38, 2016.
- Costa, A. F.; Manzato, M. G. Exploiting Multimodal Interactions in Recommender Systems with Ensemble Algorithms. Information Systems (Oxford), v. 56, p. 120-132, 2015.
- Manzato, M. G.; Santos Júnior, E. B.; Goularte, R. Leveraging Hybrid Recommenders with Multifaceted Implicit Feedback. *Journal of Universal Computer Science*, v. 21, p. 223-247, 2015.
- Santos Júnior, E. B.; Manzato, M. G.; Goularte, R. Evaluating the Impact of Demographic Data on a Hybrid Recommender Model. *IADIS International Journal on WWW/Internet*, v. 12, p. 149-167, 2014.
- Beltrão, R. D.; Cabral, B.; Durão, F.; Manzato, M. G. Personalized Ranking of Movies: Evaluating Different Metadata Types and Recommendation Strategies. *Revista de Sistemas e Computação - RSC*, v. 4, p. 1, 2014.
- Manzato, M. G.; Goularte, R.; Coimbra, D. B. An enhanced content selection mechanism for personalization of video news programmes. *Multimedia Systems*, v. 17, p. 19-34, 2011.
- Manzato, M. G.; Goularte, R. Peersommender: A peer-level annotation based approach for multimedia recommendation. *Journal of Information and Data Management - JIDM*, v. 1, p. 277-292, 2010.
- Manzato, M. G.; Macedo, A. A.; Goularte, R. Evaluation of video news classification techniques for automatic content personalization. *International Journal of Advanced Media and Communication*, v. 3, p. 383-403, 2009.

Conference Full Papers (with referee)

- Durão, F. A.; Cabral, B. S.; Costa, A. F.; Manzato, M. G. Evaluating Multiple User Interactions for Ranking Personalization Using Ensemble Methods. In Proceedings of the 30th International Conference on Software Engineering and Knowledge Engineering, SEKE'2018, Pittsburgh, USA, 2018, KSI, 2018. **(Second Best Paper Award)**.
- Costa, A. F.; Manzato, M. G.; Campello, R. J. G. B. CoRec: A Co-Training Approach for Recommender Systems. In Proceedings of the 33rd Annual ACM Symposium on Applied Computing, SAC '18, New York, NY, USA, 2018. ACM.
- Costa, A. F.; Manzato, M. G.; Campello, R. J. G. B. Group-based Collaborative Filtering Supported by Multiple Users' Feedback to Improve Personalized Ranking. In: 22nd Brazilian Symposium on Multimedia and the Web, 2016, Teresina-PI. p. 279-286. **(Best Paper Award).**
- D'Addio, R. M.; Manzato, M. G. Exploiting Item Representations for Soft Clustering Recommendation. In: 22nd Brazilian Symposium on Multimedia and the Web, 2016, Teresina-PI. p. 271-278.
- Ferraz, C. T.; Gonzaga, A.; Manzato, M. G. Complex indoor scene classification based on a new feature descriptor. In: International Conference on Pattern Recognition Systems (ICPRS16). *International Conference on Pattern Recognition Systems (ICPRS16)*. p. 3 (6.)-6.
- D'Addio, R. M.; Manzato, M. G. A Sentiment-Based Item Description Approach for kNN Collaborative Filtering. In: 30th Symposium on Applied Computing, 2015, Salamanca, Spain. *Proceedings of the 30th Symposium on Applied Computing*. New York: ACM, 2015. p. 1060-1065.
- Santos Júnior; Costa, A. F.; D'Addio, R. M.; Manzato, M. G.; Goularte, R. Introducing the concept of "always-welcome recommendations". In: 2015 IEEE/ACIS 14th International Conference on Computer and Information Science (ICIS), 2015, Las Vegas. *2015 IEEE/ACIS 14th International Conference on Computer and Information Science (ICIS)*, 2015. p. 197-202.
- Santos Júnior, E. B.; Goularte, R.; Manzato, M. G. Personalized Collaborative Filtering: A Neighborhood Model Based on Contextual Constraints. In: 29th Symposium on Applied Computing, 2014, Gyeongju, South Korea. *Proceedings of the 29th Symposium on Applied Computing*. New York: ACM, 2014. p. 919-924.
- Santos Júnior, E. B.; Manzato, M. G.; Goularte, R. A conceptual architecture with trust consensus to enhance group recommendations. In: 2014 IEEE/ACIS 13th International Conference on Computer and Information Science (ICIS), 2014, Taiyuan. *2014 IEEE/ACIS 13th International Conference on Computer and Information Science (ICIS)*. p. 137-142.
- Santos Júnior, E. B.; Goularte, R.; Manzato, M. G. The Impact of Demographic Data on a Latent Factor Model. In: 13rd International Conference on WWW/Internet, 2014, Porto, Portugal. *13rd International Conference on WWW/Internet, 2014*. p. 44.
- Costa, A. F.; Domingues, M. A.; Rezende, S. O.; Manzato, M. G. Improving Personalized Ranking in Recommender Systems with Multimodal Interactions. In: 2014 IEEE/WIC/ACM International Joint Conferences on Web Intelligence (WI) and Intelligent Agent Technologies (IAT), 2014, Warsaw. *2014 IEEE/WIC/ACM International Joint Conferences on Web Intelligence (WI) and Intelligent Agent Technologies (IAT)*. p. 198-204.
- Domingues, M. A.; Manzato, M. G.; Marcacini, R. M.; Sundermann, C. V.; Rezende, S. O. Using Contextual Information from Topic Hierarchies to Improve Context-Aware Recommender Systems. In: 22nd International Conference on Pattern Recognition (ICPR 2014), 2014, Stockholm. *Proceedings of the 22nd International Conference on Pattern Recognition (ICPR 2014)*. Los Alamitos: IEEE, 2014. p. 3606-3611.
- Manzato, M. G.; Domingues, M. A.; Rezende, S. O. Optimizing Personalized Ranking in Recommender Systems with Metadata Awareness. In: 2014 IEEE/WIC/ACM International Joint Conferences on Web Intelligence (WI) and Intelligent Agent

Technologies (IAT), 2014, Warsaw. *2014 IEEE/WIC/ACM International Joint Conferences on Web Intelligence (WI) and Intelligent Agent Technologies (IAT)*. p. 191-197.

- Domingues, M. O.; Sundermann, C. V.; Manzato, M. G.; Marcacini, R. M.; Rezende, S. O. Exploiting Text Mining Techniques for Contextual Recommendations. In: 2014 IEEE/WIC/ACM International Joint Conferences on Web Intelligence (WI) and Intelligent Agent Technologies (IAT), 2014, Warsaw. *2014 IEEE/WIC/ACM International Joint Conferences on Web Intelligence (WI) and Intelligent Agent Technologies (IAT)*. p. 210-217.
- Beltrão, R. D.; Cabral, B.; Durão, F. A.; Manzato, M. G. Evaluating the Combination of Multiple Metadata Types in Movies Recommendation. In: Joint Conference on Robotics and Intelligent Systems 2014, 2014, São Carlos. *Proceedings of the Brazilian Conference on Intelligent Systems (BRACIS)*. Los Alamitos: IEEE, 2014. p. 55-60.
- D'Addio, R. M.; Manzato, M. G. A Collaborative Filtering Approach based on User s Reviews. In: Joint Conference on Robotics and Intelligent Systems 2014, 2014, São Carlos. *Proceedings of the Brazilian Conference on Intelligent Systems (BRACIS)*. Los Alamitos: IEEE, 2014. p. 204-209.
- Costa, A. F.; Manzato, M. G. Multimodal Interactions in Recommender Systems: An Ensembling Approach. In: Joint Conference on Robotics and Intelligent Systems 2014, 2014, São Carlos. *Proceedings of the Brazilian Conference on Intelligent Systems (BRACIS)*. Los Alamitos: IEEE, 2014. p. 67-72.
- Costa, A. F.; Manzato, M. G. Ensemble Learning in Recommender Systems: Combining Multiple User Interactions for Ranking Personalization. In: 20th Brazilian Symposium on Multimedia and the Web, 2014, João Pessoa-PB. *Proceedings of the 20th Brazilian Symposium on Multimedia and the Web*. New York: ACM, 2014. p. 47-54.
- Cabral, B.; Beltrão, R. D.; Manzato, M. G.; Durão, F. A. Combining Multiple Metadata Types in Movies Recommendation Using Ensemble Algorithms. In: 20th Brazilian Symposium on Multimedia and the Web, 2014, João Pessoa-PB. *Proceedings of the 20th Brazilian Symposium on Multimedia and the Web*. New York: ACM, 2014. p. 231-238.
- Manzato, M. G.; Domingues, M. A.; Marcacini, R. M.; Rezende, S. O. Improving Personalized Ranking in Recommender Systems with Topic Hierarchies and Implicit Feedback. In: 22nd International Conference on Pattern Recognition (ICPR 2014), 2014, Stockholm. *Proceedings of the 22nd International Conference on Pattern Recognition (ICPR 2014)*. Los Alamitos: IEEE, 2014. p. 3696-3701.
- Manzato, M. G. gSVD++: supporting implicit feedback on recommender systems with metadata awareness. In: 28th Symposium On Applied Computing, 2013, Coimbra, Portugal. *Proceedings of the 28th Symposium On Applied Computing*. New York: ACM, 2013. p. 908-913.
- Santos Júnior, E. B.; Manzato, M. G.; Goularte, R. Hybrid recommenders: incorporating metadata awareness into latent factor models. In: 19th Brazilian Symposium on Multimedia and the Web, 2014, Salvador-BA. *Proceedings of the 19th Brazilian Symposium on Multimedia and the Web*. New York: ACM, 2013. p. 317-324.
- Manzato, M. G.; Goularte, R. A multimedia recommender system based on enriched user profiles. In: 27th Symposium On Applied Computing, 2012, Riva Del Garda (Trento). *Proceedings of the 27th Symposium On Applied Computing*. New York: ACM, 2012. p. 975-980.
- Manzato, M. G.; Goularte, R. Automatic annotation of tagged content using predefined semantic concepts. In: 18th Brazilian Symposium on Multimedia and the Web, 2012, São Paulo. *Proceedings of the 18th Brazilian Symposium on Multimedia and the Web*. New York: ACM, 2012. p. 1-8.
- Carvalho, J.; Manzato, M. G.; Goularte, R. Accelerometers data interoperability: easing interactive applications development. In: Brazilian Symposium on Multimedia Systems and the Web, 2012, São Paulo. *Proceedings of the XVIII Brazilian Symposium on Multimedia Systems and the Web*. New York: ACM, 2012. p. 20-28. **(Notable Computing Books and Articles of 2012 Award, ACM)**.

Conference Short Papers (with referee)

- Marinho, R. S.; D'Addio, R. M.; Manzato, M. G. Semantic organization of user's reviews applied in recommender systems. In Proceedings of the 23rd. Brazi- lian Symposium on Multimedia and the Web, Webmedia '17, pages 277–280, New York, NY, USA, 2017. ACM.
- Costa, A. F.; D'Addio, R. M.; Manzato, M. G.; Campello, R. J. G. B. Exploiting different users' interactions for profiles enrichment in recommender systems. In: The 31st AC/SIGAPP Symposium on Applied Computing, 2016, Pisa, Italy. Proceedings of the 31st ACM/SIGAPP Symposium on Applied Computing, 2016.
- Domingues, M. A.; Sundermann, C. V.; Barros, F.; Manzato, M. G.; Pimentel, M. G. C.; Rezende, S. O.; Oliveira, S. Applying Multi-View Based Metadata in Personalized Ranking for Recommender Systems. In: 30th Symposium on Applied Computing, 2015, Salamanca, Spain. *Proceedings of the 30th Symposium on Applied Computing*. New York: ACM, 2015.
- Marques Júnior, S.; Manzato, M. G. Collaborative Filtering Based on Semantic Distance Among Items. In: Simpósio Brasileiro de Sistemas Multimídia e Web (WebMedia), 2015, Manaus. *Anais do 21o Simpósio Brasileiro de Sistemas Multimídia e Web (WebMedia)*. Nova Iorque: ACM, 2015.
- D'Addio, R. M.; Conrado, M.; Rezende, S. O.; Manzato, M. G. Generating Recommendations Based on Robust Term Extraction from Users Reviews. In: 20th Brazilian Symposium on Multimedia and the Web, 2014, João Pessoa-PB. *Proceedings of the 20th Brazilian Symposium on Multimedia and the Web*. New York: ACM, 2014. p. 55-58. **(Honorable Mention Award)**.
- Manzato, M. G. Discovering Latent Factors from Movies Genres for Enhanced Recommendation. In: ACM Conference on Recommender Systems, 2012, Dublin. *Proceedings of the 6th ACM Conference on Recommender Systems*. New York: ACM, 2012. p. 249-252.

Awards

- **Second Best Paper Award**   2018
  Second best paper award for the paper " Evaluating Multiple User Interactions for Ranking Personalization Using Ensemble Methods", published in SEKE 2018.

- **Best Paper Award (Web and Social Networks track)** 2016
  Award for the paper "Group-based Collaborative Filtering Supported by Multiple Users' Feedback
  to Improve Personalized Ranking", published in WebMedia 2016.

- **Honorable Mention Award** 2014
  Award for the paper "Generating Recommendations Based on Robust Term Extraction from Users'
  Reviews", published in WebMedia 2014.

- **ACM Notable Computing Books and Articles Award** 2012
  Award for the paper "Accelerometers data interoperability: easing interactive applications
  development", published in WebMedia 2012.

Software

- Costa, A. F.; Fressato, E. P.; Neto, F. S. A.; Manzato, M. G.; Campello, R. J. G. B. Case Recommender: A Flexible and Extensible
  Python Framework for Recommender Systems, ACM RecSys demo track, 2018.
  `https://github.com/caserec/CaseRecommender`
- I contributed to the **MyMediaLite System Library**, version 3.07, in 2013. `http://www.mymedialite.net/`

Academic Service and Memberships

Academic Advisory

•	Marcelo Miky Mine	MSc	2018-Present
•	Gustavo Junior E. Ticona	MSc	2017-Present
•	Matheus Naoto S. Takata	MSc	2017-Present
•	Eduardo Pereira Fressato	MSc	2016-Present
•	Ronnie Shida Marinho	MSc	2015-2018
•	Rafael Martins D'Addio	MSc	2013-2015
		PhD	2015-Present
•	Arthur Fortes da Costa	MSc	2013-2015
		PhD (co-advisory)	2015-Present
•	Bruno Souza Cabral	MSc (co-advisory)	2014-2016
•	Salmo Marques Júnior	MSc	2014-2017
•	Fernando S. de Aguiar Neto	MSc	2016-Present

Social Extension Projects

- **Codifique Course** 2016-Present
  The course aims to teach basic programming for high school students.

- **Codifikids Course** 2017-Present
  The course aims to teach basic programming for 9-12 children.

- **Basic Informatics for Senior People** 2016-Present
  The course aims to teach basic usage of computer for senior and elderly people.

- **ICMC-USP Computing Week** 2016-Present
  I am general coordinator of the ICMC-USP Computing Week (https://semcomp.icmc.usp.br).

- **PET-Cult** 2016-Present
  Event in which students, specialists and teachers discuss a variety of topics relevant for the society.

Additional Contributions

- Tutor of the Tutoring Educational Program (http://portal.mec.gov.br/pet) since February/2016.
- Program committee member: SAC 2014-2018, WebMedia 2011-2018, TVX 2014-2018.
- Technical chair: WebMedia 2012-2013.
- Reviewer of the following journals: Multimedia Tools and Applications (2012-2013), Data & Knowledge Engineering (2015), Big
  Data Research (2015), The Journal of Systems and Software (2015), Pervasive and Mobile Computing (2015), Applied
  Computing and Informatics (2015), IEEE Transactions on Learning Technologies (2016), Information Sciences (2017).
- ACM and SBC member.

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