



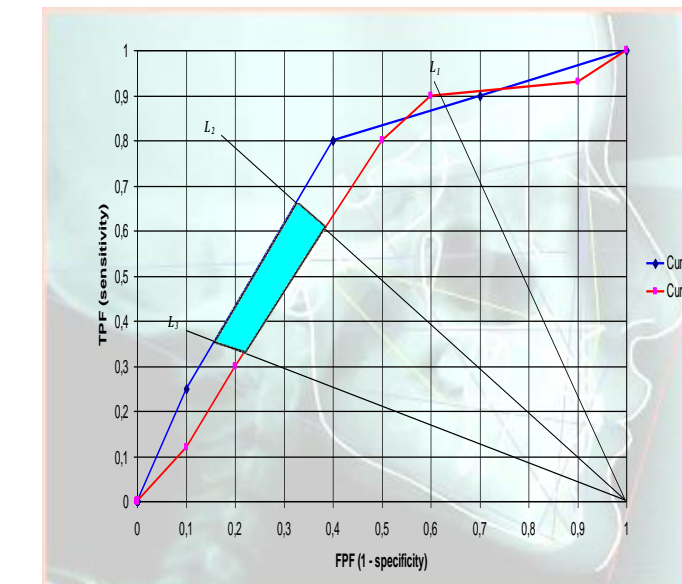
Statistics and Applications (SA)

Aims of the project:

- **Medical decision support**
- **Statistical modeling of real life problems**
- **Cooperation in multidisciplinary research projects**
- **Development of algorithms and software applications**



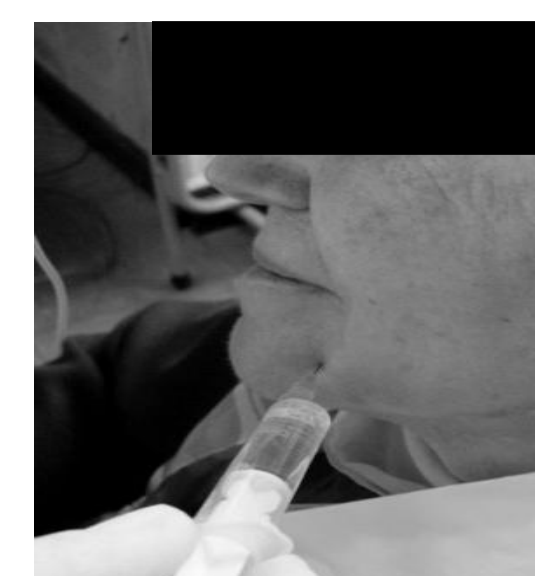
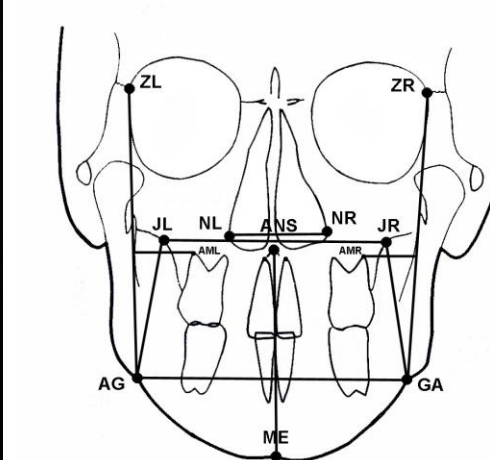
Neonatal Intensive Care Units [1]



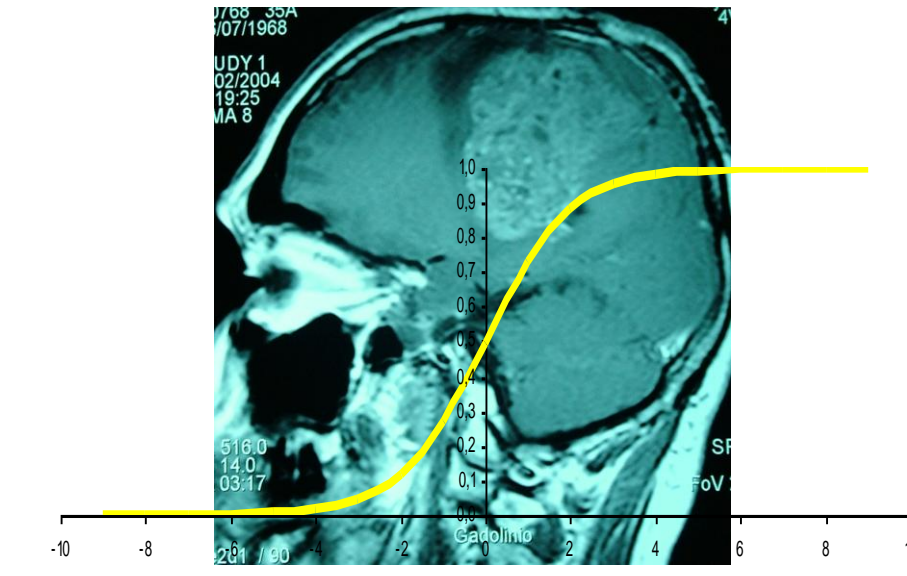
ROC application in Orthodontics [8]



Orthodontics application [15]



Medical application [9]



Medical application [6]

Research Team

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Publications

1. Braga, A.C., Oliveira, P. Diagnostic analysis based on ROC curves: theory and applications in medicine, **International Journal of Health Care Quality Assurance**, Emerald, V. 6 (4), 191-198, 2003.
2. Sousa, P. C., Morreale de Escobar, G., Oliveira, P., Saraiva, M. J., Palha, J. A., Transtherytin is not necessary for thyroid hormone metabolism in conditions of increased hormone demand. **J. Endocrinology**, 187, 257-266, 2005.
3. Valdigem, G. L., Pereira, T., Macedo C., Duarte M. L., Oliveira, P., Ludovico, P., Sousa-Basto A., Leão, C. e Rodrigues, F., A twenty-year survey of dermatophytoses in Braga, Portugal, **International Journal of Dermatology**, 45, 822, 2006.
4. Temudo, T., Oliveira, P., Santos, M., Dias, K., Vieira, J. P., Moreira, A., Calado, E., Carrilho, I., Oliveira, G., Levy, A., Barbot, C., Fonseca, M. J., Cabral, A., Dias, A., Cabral, P., Monteiro, J. P., Borges, L., Gomes, R., Barbosa, C., Mira, G., Eusébio, F., Santos, M., Sequeiros, J., Maciel, P., Stereotypies in Rett Syndrome: analysis of 84 patients with and without detected MECP2 mutations, **Neurology**, 68 (15): 1183-1187, 2006.
5. Marques, F., Sousa, J., Correia-Neves, M., Oliveira, P., Sousa, N., Palha, J., The choroid plexus response to peripheral inflammatory stimulus, **Neuroscience**, 144 (2), 424-430, 2007.
6. Costa, B., Ferreira, P., Costa, S., Canedo, P., Oliveira, P., Silva, A., Pardal, F., Suriano, G., Machado, J., Lopes, J., Reis, R., Association between functional EGF+61 polymorphism and glioma risk, **Clinical Cancer Research**, 13 (9), 2621-2626, 2007.
7. Santos, M., Silva-Fernandes, A., Oliveira, P., Sousa, N., Maciel P., Evidence for abnormal early development in a mouse, **Genes, Brain and Behavior**, 6 (3), 277-286, 2007.
8. Braga, A.C., Macedo, A.P., Ferreira, A.P., Modelo de Regressão Logística em Ortodontia, Estatística Ciência Interdisciplinar, **Actas do XIV Congresso da SPE**, 237-244, 2007.
9. Lemos, L., Flores, S.; Oliveira, P., Almeida, A., Gabapentin associated to Ropivacain block of trigger-points improves pain control and quality of life in Trigeminal Neuralgia patients, **Pain** (accepted for publication) **Grunenthal Foundation Prize, Pain 2006**.
10. Serra, R., Braga, A.C., Venâncio, A., Mycotoxin producing and other fungi isolated from grapes for wine production, with particular emphasis on Ochratoxin A, **Research in Microbiology**, V. 156, 515-521, 2005.
11. Abelenda, C.S.S., Avaliação do conforto de protectores individuais auditivos, MSc thesis, U Minho, 2006, supervisors: Arezes, P. and Braga, A.C.
12. Mendes, M.F., O impacto do sistema Qualidade Ambiente e Segurança nas Pequenas e Médias Empresas, MSc thesis, UMinho, 2007, supervisor: Braga, A.C.
13. Nunes, M. L., Paisana, A. V. e Braga, A. C., Reduction of time-to-market as a source of competitive advantage: the case of industrial products, **14th Internacional Product Development Management Conference**, Porto, pp. 969-982, 2007.
14. Nunes, M. L., Afonso, P. S., Paisana, A. V., Braga, A. C., The role of target costing within new product development, **14th Internacional Product Development Management Conference**, Porto, pp. 983-994, 2007.
15. Santos, P., Estudo das alterações da face provocadas pela expansão rápida da maxila com a introdução de um método fotográfico original, PhD thesis, U Barcelona, Spain, 2007, supervisors: Moreira, J. and Ustrell, J. M.