

## Top 10 papers cited – (2005-present)

| Authors   | Title  | Yr   | Cited by |
|---|--|------|----------|
| Serby H, Yom-Tov E, Inbar GF                    | An improved P300-based brain-computer interface  | 2005 | 70       |
| Riener R, Lunenburger L, Jezernik S, et al.     | Patient-cooperative strategies for robot-aided treadmill training: First experimental results  | 2005 | 67       |
| Suner S, Fellows MR, Vargas-Irwin C, et al.     | Reliability of signals from a chronically implanted, silicon-based electrode array in non-human primate primary motor cortex   | 2005 | 66       |
| Mohseni P, Najafi K, Eliades SJ, et al.         | Wireless multichannel biopotential recording using an integrated FM telemetry circuit  | 2005 | 56       |
| Mahadevappa M, Weiland JD, Greenberg RJ, et al. | Perceptual thresholds and electrode impedance in three retinal prosthesis subjects   | 2005 | 53       |
| Dhillon GS, Horch KW                            | Direct neural sensory feedback and control of a prosthetic arm   | 2005 | 51       |
| Blankertz B, Muller KR, Krusienski DJ, et al.   | The BCI competition III: Validating alternative approaches to actual BCI problems  | 2005 | 49       |
| Colombo R, Pisano F, Micera S, et al.           | Robotic techniques for upper limb evaluation and rehabilitation of stroke patients   | 2005 | 48       |
| Ajiboye AB, Weir RF                             | A heuristic fuzzy logic approach to EMG pattern recognition for multifunctional prosthesis control The Berlin brain-computer interface: EEG-based communication without subject training | 2005 | 46       |
| Blankertz B, Dornhege G, Krauledat M, et al.    | The Berlin brain-computer interface: EEG-based communication without subject training  | 2005 | 46       |

## Highly cited papers from 2008

| Authors  | Title  | Yr   | Cited by |
|--|--|------|----------|
| Wolbrecht ET, Chan V, Reinkensmeyer DJ, et al.   | Optimizing compliant, model-based robotic assistance to promote neurorehabilitation                                  | 2008 | 25       |
| Miller LA, Stubblefield KA, Lipschutz RD, et al. | Improved myoelectric prosthesis control using targeted reinnervation surgery: A case series                          | 2008 | 13       |
| Aggarwal V, Acharya S, Tenore F, et al.          | Asynchronous decoding of dexterous finger movements using M1 neurons   | 2008 | 10       |
| Strauss DJ, Delb W, D'Amelio R, et al.           | Objective quantification of the tinnitus decompensation by synchronization measures of auditory evoked single sweeps | 2008 | 10       |
| Zeinali-Davarani S, Hemami H, Barin K, et al.    | Dynamic stability of spine using stability-based optimization and muscle spindle reflex                              | 2008 | 9        |

## Best Paper Award

Based on the statistics, two papers one each in Neural Engineering and another in Rehabilitation Engineering are identified and selected for the “Best Paper Award” for year 2009.

| Authors                                     | Title   | Yr   | Cited by |
|---|---|------|----------|
| Serby H, Yom-Tov E, Inbar GF                | An improved P300-based brain-computer interface   | 2005 | 70       |
| Riener R, Lunenburger L, Jezernik S, et al. | Patient-cooperative strategies for robot-aided treadmill training: First experimental results | 2005 | 67       |