Program of

Practical Session of the course
“Motion Analysis and clinics: why to set up a Motion Analysis Lab?”
TRAMA Network Project

21\textsuperscript{st} – 25\textsuperscript{th} January 2008

Université Libre de Bruxelles
BRUXELLES (BELGIUM)
Monday, 21\textsuperscript{th} January 2008
\textit{Location: LNMB, Erasme}

9.00 – 12.00 \textit{Introduction to the practical aspect of ELITE 7 cameras}
- working field, procedure of dynamic calibration
- Smart analyser
- Tele EMG

12.00 – 14.00 Lunch

14.00 – 17.00 \textit{Experiments in real situations}

17.00 – 18.00 \textit{Francoise Leurs (LNMB, ULB)}
\textit{Introduction to dynamic recurrent neural network methods for EMG to kinematics mapping}

Tuesday, 22\textsuperscript{nd} January 2008
\textit{Location: LNMB, Erasme}

9.00 – 12.00 \textit{Experiments in real situations}

12.00 – 14.00 Lunch

14.00 – 17.00 \textit{Introduction to the different methods for data analysis}
**Wednesday, 23rd January 2008**  
*Location: LNMB, Erasme*

- **9.00 – 12.00**  **Experiments in real situations**
- **12.00 – 14.00**  **Lunch**
- **14.00 – 17.00**  **Treatment of the data**
- **17.00 – 18.00**  **Dr. Ana Bengoetxea (LNMB, ULB)**  
  *On line validation with TeleEMG analysis of a kinesitherapeutic treatment evaluation*

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**Thursday 24th January**  
*Location: Brugmann Hospital*

- **9.00 – 12.00**  **Recordings in clinical situations**
- **12.00 – 14.00**  **Lunch**
- **14.00 – 17.00**  **Single cases analysis**
- **17.00 – 18.00**  **Prof. Bernard Dan (ULB)**  
  *The key elements for clinical gait analysis*
Friday 25th January  
*Location: Brugmann Hospital*

9.00 – 12.00  **Recordings in clinical situations and single cases analysis**

12.00 – 14.00  Lunch

14.00 – 17.00  **Dr. Y Ivanenko (University of Roma)**  
*Introduction to principal component analysis in motor control field and applications*

17.00 – 18.00  Conclusions of the practical session

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