

BeeVS at Apilombardia

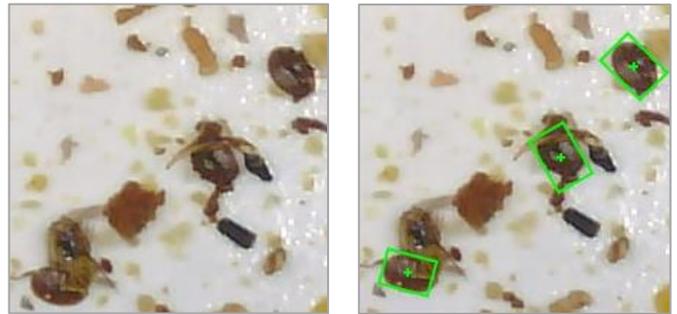


20 Luglio 2017 – The delivery of Varroa counter to Apilombardia beekeepers regional association took place at the abode of Luca Bonizzoni, owner of one of the largest Italian beekeeping organic farms. The beekeeping technicians Enrica Lucchelli needed to carry out the demanding varroa counts of three harvesting campaigns to verify their effectiveness with some urgency. BeeVS is user friendly and followed by the users. As the Enrica puts tray in BeeVS, varroa counting goes on. And in a short time, the first 150 adhesive papers with varroa were scanned. We've been able to increase the scan speed of the Varroa counter that now takes from about 30 seconds to one minute to detect the tray image. Counts will have to be verified and are not without any inaccuracies but meanwhile it is a good start.

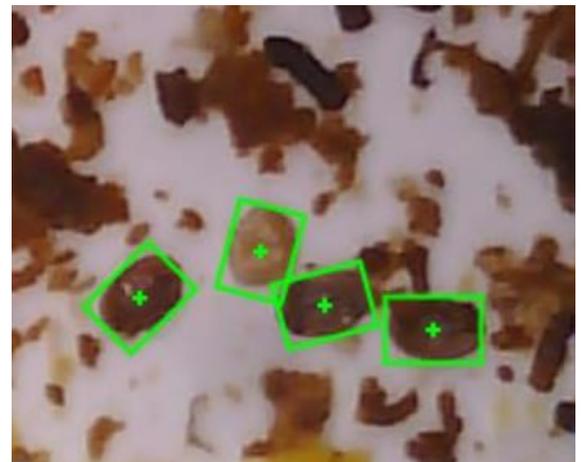
Artificial Intelligence

The title is not a gamble, is just the reality. We know we have to go further more but meanwhile the APISFERO team has developed the neural network that can learn to count. As much as BeeVS will do scans it will be good to count varroa.

Here's an example of some complexity:



Here's another example with lots of debris. The portions of the images are taken from real scans of the varroa counting campaign of Apilombardia association.



News from BeeVS dissertation

11 Agosto 2017 - Fabio Martino of the DISAFA Department of the University of Turin, under the supervision of Prof. Marco Porporato and the researcher Daniela Laurino, in these summer months, is proceeding to automatic varroa counting on twenty hives of experimental apiary of University. Let's remind the title of the dissertation: *Bee Varroa Scanner, assessment of detection of the population of varroa in the colonies.*

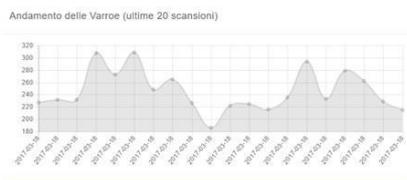
Aspromiele association counts!

10 Agosto 2017 – Here is the work of automatic counting with BeeVS of beekeeping technicians Gianluigi Bigio e Andrea Fissore of Aspromiele association. Thanks to these first scans and feedback from technicians, the neural network will learn to recognize the varroa better.



The steps are simple:

1. insert the tray of the hive to be evaluated into the BeeVS device;
 2. point the video camera of the phone to the QR code of the hive;
 3. wait until the scanning is performed and repeat steps 1 and 2 for any further scans.
1. look the outcomes on the site 😊



We'll be at Tuttomieie

10 Settembre 2017 - We were invited to the 15th edition of Tuttomieie in Bruzolo in Val di Susa. An opportunity to tell the BeeVS project to the beekeeping friends of Val di Susa and the French associations.



The next APISFERO flight

Apisfero does not stop and summer sees us busy building new BeeVS that will be delivered in September.

It is possible to continue supporting our project on our site through paypal or bank transfer: APISFERO A.P.S: presso Banca Popolare Etica. IBAN: IT47N0359901899050188538029.



Tacuinum sanitatis, Lombardia, tardo XIV secolo
"Bees are like letters, only together can tell the honey of life" (db)